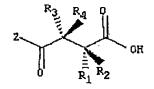
#### CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application.

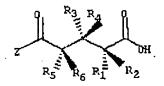
- (Currently Amended) A compound of general formula Z-OC (C R<sub>01</sub>R<sub>02</sub>)-CO-Z wherein Z = OH or NH<sub>2</sub> and n1 = n2 =1 to 8, wherein one R in the compound is selected from the group consisting of SO<sub>3</sub>H, OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, and NIISO<sub>3</sub>H, and the remaining Rs are H or NH<sub>2</sub>, and non-toxic salts thereof.
- 2. (Currently Amended) A compound as claimed in claim 1 having a structure as shown below and bearing general formula ZOC-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOII wherein: Z=OH or NH<sub>2</sub>, R<sub>17</sub> to R<sub>4</sub> denotes H, NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CII<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>3</sub>H



Structure 1

#### , and non-toxic salts thereof.

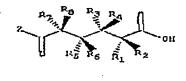
3. (Currently Amended) A compound as claimed in claim 1 having a structure as shown below and bearing general formula ZOC-CR<sub>5</sub>R<sub>6</sub>-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH wherein: Z=OH or NH<sub>2</sub>, R<sub>1</sub> to R<sub>6</sub> denotes H, NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>3</sub>H



Structure 2

#### , and non-toxic salts thereof.

4. (Currently Amended) A compound as claimed in claim 1 having a structure as shown below and bearing general formula ZOC-CR<sub>7</sub>R<sub>8</sub>-CR<sub>5</sub>R<sub>6</sub>-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH wherein: Z=OH or NH<sub>2</sub>, R<sub>1</sub> to R<sub>8</sub> denotes H, NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>3</sub>H



structure 3

#### and non-toxic salts thereof.

- 5. (Currently Amended) A [[C]]compound as claimed in claim 2, wherein the compound is selected from the group consisting of:
  - I [L- Aspartic acid, N-Sulfonic acid],
  - II [2a,3-dicarboxy, propanc-1-sulfonic acid],
  - III [2a,3-dicarboxy, propane-1-sulfate],
  - IV [1a,2-carboxy ethane sulfonic acid],
  - V [lα,2-carboxy cthane sulfate],
  - VI [D-aspartic acid, N-sulfonic acid],
  - VII [2]3,3-carboxy,propane-1-sulfonic acid],
  - VIII [2β,3-carboxy,propane-1-sulfate],
  - IX [1β,2-carboxy ethane-1-sulfonic acid],
  - X [1β,2-carboxy cthane-1-sulfate],

- 3 -

- XI [D-aspartic acid, 3α -sulfonic acid],
- XII [D-aspartic acid, 3α-sulfate],
- XIII [D-aspartic acid, 3β-sulfonic acid],
- XIV [D-aspartic acid, 3β-sulfate],
- XV [L-asparagine, N-sulfonic acid],
- XVI [2α-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVII [2a-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII [1α-carboxy, 2-carboxamido, ethane sulfonic acid],
  - XIX [1a-carboxy, 2-carboxamido, ethane sulfate],
  - XX [L-asparagine, 3α-sulfonic acid],
  - XXI [L-asparagine, 3α-sulfate],
- XXII [L-asparagine, 3β-sulfonic acid],
- XXIII [L-asparagine, 3β-sulfate,
- XXIV [D-asparagine, N-sulfonic acid],
- XXV [2β-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI [2β-carboxy, 3-carboxamido, propane-1-sulfate],
- XXVII [1β-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII [1B-carboxy, 2-carboxamido, ethano sulfate],
  - XXIX [D-asparagine, 3a-sulfonic acid],
  - XXX [1)-asparagine, 3α-sulfate],
  - XXXI [D-asparagine, 3β-sulfonic acid],
- XXXII [D-asparagine, 3β-sulfate],
- XXXIII [L-glutamic acid, N-sulfonic acid],
- XXXIV [2a,4-dicarboxy, butane-1-sulfonic acid],
- XXXV [2\alpha, 4-dicarboxy, butane-1-sulfate],
- XXXVI [1a, 3-dicarboxy, propane sulfonic acid],
- XXXVII [1\alpha, 3-dicarboxy, propane sulfate],
- XXXVIII [1B, 3-dicarboxy, propane sulfate], and
- XXXIX [1β, 3-dicarboxy, propane sulfonic acid].[[,]]

- 6. (Currently Amended) A [[C]]compound as claimed in claim 3, wherein the compound is selected from the group consisting of:
  - 1. [D-glutamic acid, N-sulfonic acid],
  - II. 2\beta, 4-dicarboxy, butanc-1-sulfonic acid],
  - III. [2β, 4-dicarboxy, butane-1-sulfate],
  - IV. [D-glutarnic acid, 3α-sulfonic acid],
  - V. [D-glutamic acid, 3α-sulfate],
  - VI. [D-glutamic acid, 3β-sulfonic acid],
  - VII. [D-glutamic acid, 3\beta-sulfate],
- VIII. [D-glutamic acid, 4u-sulfonic acid],
  - IX. [D-glutamic acid, 4α-sulfate],
  - X. [D-glutamic acid, 4β-sulfonic acid],
  - XI. [D-glutamic acid, 3β-sulfate],
- XII. [L-glutamine, N-sulfonic acid],
- XIII. [2α-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XIV. [2α-carboxy, 4-carboxamido, butane-1-sulfate],
- XV. [1α-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVI, [1α-carboxy, 3-carboxamido, propanc-1-sulfate],
- XVII. [1β-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1β-carboxy, 3-carboxamido, propane-1-sulfonic acid],
  - XIX. [D-glutamine, N-sulfonic acid],
  - XX. [2β-carboxy, 4-carboxamido, butane-1-sulfonic acid],
  - XXI. [2\beta-carboxy, 4-carboxamido, butane-1-sulfate],
- XXII. [D-glutamine, 3\alpha-sulfonic acid],
- XXIII. [D-glutamine, 3α-sulfate],
- XXIV. [D-glutamine, 3β-sulfonic acid],
- XXV. [D-glutamine, 3β-sulfate],
- XXVI. [D-glutamine, 4α-sulfonic acid],
- XXVII. [D-glutamine, 4α-sulfate],
- XXVIII. [D-glutamine, 4β-sulfonic acid],

- XXIX. [D-glutamine, 4β-sulfate],
- XXX. [L-homoglutamic acid, N-sulfonic acid],
- XXXI. [Pentane-2a, 5-dicarboxy-1-sulfonic acid],
- XXXII. [Pentano-2\alpha, 5-dicarboxy-1-sulfate],
- XXXIII. [Butane-1\alpha, 4-dicarboxy-1-sulfonic acid],
- XXXIV. [Butanc-1\alpha, 4-dicarboxy-1-sulfate],
- XXXV. [1)-homoglutamic acid, N-sulfonic acid],
- XXXVI. [Pentane-2\beta, 5-dicarboxy-1-sulfonic acid],
- XXXVII. [Pentane-2\beta, 5-dicarboxy-1-sulfate],
- XXXVIII. [Butano-1ß, 4-dicarboxy-1-sulfonic acid], and
  - XXXIX. [Butane-1β, 4-dicarboxy-1-sulfate].[[,]]
    - (Currently Amended) A [[C]]compound as claimed in claim 4, wherein the compound is selected from the group consisting of:
      - I. [D-homoglutamic acid, 3α-sulfonic acid],
      - II. [D-homoglutamic acid, 3α-sulfate],
      - III. [D-homoglutamic acid, 3β-sulfonic acid],
      - IV. [D-homoglutamic acid, 3β-sulfate],
      - V. [D-homoglutamic acid, 4α-sulfonic acid],
      - VI. [D-homoglutamic acid, 4α-sulfate],
      - VII. [D-homoglutamic acid, 4β-sulfonic acid],
    - VIII. [D-homoglutamic acid, 4β-sulfate],
    - IX. [D-homoglutamic acid, 5α-sulfate],
    - X. [D-homoglutamic acid, 5α-sulfate],
    - XI. [D-homoglutamic acid, 5β-sulfonic acid],
    - XII. [D-homoglutamic acid, 5β-sulfate],
    - XIII. [Lehomoglutamine, N-sulfonic acid],
    - XIV. [Pentane-2α-carboxy, 5-carboxamido-1-sulfonic acid],
    - XV. [Pentanc-2α-carboxy, 5-carboxamido-1-sulfate],
    - XVI. [Butane-1a-carboxy, 4-carboxamido-1-sulfonic acid],

- XVII. [Butane-1a-carboxy, 4-carboxamido-1-sulfate],
- XVIII. [D-homoglutamine, N-sulfonic acid],
  - XIX. [Pentane-2\beta-carboxy, 5-carboxamido-1-sulfonic acid],
  - XX. [Butane-1 B-carboxy, 4-carboxamido-1-sulfonic acid],
  - XXI. [Butane-1  $\beta$ -carboxy, 4-carboxamido-1-sulfate],
- XXII. [D-homoglutamine, 3α-sulfonic acid],
- XXIII. [D-homoglutamine, 3α-sulfate],
- XXIV. [D-homoglutamine, 3\beta\_sulfonic acid],
- XXV. [D-homoglutamine, 3β-sulfate],
- XXVI. [D-homoglutamine,  $4\alpha$ -sulfonic acid],
- XXVII. [D-homoglutamine, 4\alpha-sulfate],
- XXVIII. [D-homoglutamine, 4β-sulfonic acid],
  - XXIX. [D-homoglutamine, 4β-sulfate],
  - XXX. [D-homoglutamine, 5\alpha-sulfonic acid],
  - XXXI. [D-homoglutamine, 5a-sulfate],
- XXXII. [D-homoglutamine, 5β-sulfonic acid], and
- XXXIII. [D-homoglutamine, 5β-sulfate].
  - 8. (Currently Amended) Novel sulfonic acid / sulfate derivatives of the The compound of claim 2, wherein:
  - a) Z is OH, R<sub>2</sub>-R<sub>4</sub> are H, and R<sub>1</sub> is selected from the group consisting of SO<sub>2</sub>H, OSO<sub>2</sub>H, CH<sub>2</sub>-SO<sub>2</sub>H, CH<sub>2</sub>-OSO<sub>2</sub>H, and NHSO<sub>2</sub>H.
  - b) Z is OH, R<sub>1</sub> and R<sub>3-4</sub> are H, and R<sub>2</sub> is selected from the group consisting of SO<sub>3</sub>H, OSO<sub>3</sub>H, CH<sub>2</sub>--SO<sub>3</sub>H, CH<sub>2</sub>--OSO<sub>3</sub>H, and NHSO<sub>3</sub>H,
  - c) Z is Oll, R<sub>1</sub> and R<sub>4</sub> are H, R<sub>2</sub> is NH<sub>2</sub>, and R<sub>3</sub> is selected from the group consisting of SO<sub>3</sub>H, OSO<sub>3</sub>H, CH<sub>2</sub>--SO<sub>3</sub>H, CH<sub>2</sub>--OSO<sub>3</sub>H, and NHSO<sub>3</sub>H.
  - d) Z is NH<sub>2</sub>, R<sub>2</sub>-R<sub>4</sub> are H, and R<sub>1</sub> is selected from the group consisting of SO<sub>3</sub>H, OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, and NHSO<sub>3</sub>H,
  - c) Z is NH<sub>2</sub>, R<sub>1</sub> and R<sub>4</sub> are H, R<sub>2</sub> is NH<sub>2</sub>, and R<sub>3</sub> is selected from the group consisting of SO<sub>3</sub>H, OSO<sub>3</sub>H, CH<sub>2</sub>--OSO<sub>3</sub>H, and NHSO<sub>3</sub>H,
  - 1) Z is NH<sub>2</sub>, R<sub>1</sub> and R<sub>3</sub> are H, R<sub>2</sub> is NH<sub>2</sub>, and R<sub>3</sub> is selected from the group consisting of SO<sub>3</sub>II, OSO<sub>3</sub>II, CI<sub>12</sub>--SO<sub>3</sub>II, CI<sub>12</sub>--OSO<sub>3</sub>II, and NIISO<sub>3</sub>II, or
  - g) Z is NH<sub>2</sub>, R<sub>1</sub> and R<sub>3-4</sub> are H, and R<sub>2</sub> is selected from the group consisting of SO<sub>3</sub>H,

    OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, and NHSO<sub>3</sub>H.

- and non-toxic salts thereof formulae ZOC CR<sub>3</sub>R<sub>4</sub> CR<sub>4</sub>R<sub>2</sub>-COOM-as claimed in claim 2, wherein:
- Z=OH-or-NH<sub>27</sub>-R<sub>17</sub>-to-R<sub>4</sub>-denotes-H<sub>3</sub>-NH<sub>27</sub>-SO<sub>3</sub>H<sub>7</sub>-GH<sub>2</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>2</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-OSO<sub>3</sub>H<sub>7</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>-CH<sub>27</sub>
- 1.—A-compound as claimed in claim 1, wherein Z-OH, R<sub>2</sub>-R<sub>3</sub>-R<sub>4</sub>-H, R<sub>1</sub>-NHSO<sub>3</sub>H is the same meaning as is before defined;
- II.—A compound as claimed in claim-1, wherein Z=OII, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>1</sub>=-CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- III.—A—compound—as—claimed—in—claim—1;—wherein—Z=OH,—R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H,—R<sub>1</sub>=CH<sub>2</sub>OSO<sub>1</sub>H·is-the-same meaning as is before defined;
- IV. A compound as claimed in claim 1, wherein 7=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=SO<sub>4</sub>H is the same meaning as is before defined;
- V. A compound as claimed in claim 1, wherein Z=OII, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>1</sub>=OSO<sub>3</sub>II is the same meaning as is before defined;
- VI.—Λ-compound-as-claimed in claim 1;-wherein-Z=OH; R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=H;-R<sub>2</sub>:-NHSO<sub>3</sub>H is the same meaning as is before defined;
- VII. A compound as claimed in claim-1, wherein Z=OH, R<sub>1</sub>=R<sub>2</sub>=R<sub>4</sub>=H, R<sub>2</sub>= CH<sub>2</sub>SO<sub>2</sub>H is the same meaning as is before defined;
- VIII. A compound as elaimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>2</sub>= CH<sub>2</sub>OSO<sub>3</sub>II is the same meaning as is before defined;
  - IX.—A-compound as plaimed in claim-1, wherein-Z-OH, R<sub>1</sub>--R<sub>2</sub>--R<sub>4</sub>--H, R<sub>2</sub>--SO<sub>3</sub>H- is the same meaning as is before defined;
  - X. A compound as claimed in claim 1, wherein Z=OH, R<sub>4</sub>=R<sub>4</sub>=R<sub>4</sub>=H, R<sub>2</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;
  - XI:-A-compound—as elaimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>4</sub>=II, R<sub>2</sub>=NII<sub>2</sub>, R<sub>3</sub>=SO<sub>3</sub>II is the same meaning as is before defined;
- XII. A-compound-as-claimed-in-claim-1, wherein-Z=OH, R<sub>4</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=SO<sub>3</sub>H-is the same meaning as is before defined;
- XIII.—A. compound-us—claimed—in—claim—1, wherein—Z=OH, R<sub>1</sub>=R<sub>3</sub>=H, R<sub>2</sub>=NH<sub>2</sub>; R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;

- XIV.—A compound as claimed in claim -1, wherein -2 OII, R<sub>1</sub>=R<sub>3</sub>-II, R<sub>2</sub>=NII<sub>2</sub>, R<sub>4</sub>-OSO<sub>2</sub>H is the same meaning as is before defined;
- XV. A compound as claimed in claim 1, wherein Z-NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=NHSO<sub>3</sub>H is the same meaning as is before defined;
- XVI.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>1</sub>=CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- XVII.—A—compound—as—claimed—in—claim—I;—wherein—Z\*NH<sub>2</sub>,—R<sub>2</sub>—R<sub>3</sub>—R<sub>4</sub>—II, R<sub>4</sub>=
  CH<sub>2</sub>OSO<sub>3</sub>H is the same meaning as is before defined;
- XVIII.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>1</sub>=SO<sub>3</sub>II-is the same meaning as is before defined;
- XIX. A-compound as claimed in claim-1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>1</sub>=OSO<sub>3</sub>II is the same-meaning as is-before defined;
- XX:-- A-compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>= SO<sub>2</sub>H is the same meaning as is before defined;
- XXI...A-compound as claimed in claim 1, wherein Z-NII<sub>2</sub>, R<sub>1</sub>-R<sub>4</sub>-II, R<sub>2</sub>-NII<sub>2</sub>, R<sub>3</sub>=
  OSO<sub>3</sub>H is the same meaning as is before defined;
- XXII.--A-compound as claimed in claim 1, wherein Z-NH<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>4</sub>= SO<sub>1</sub>H is the same meaning as is before defined;
- XXIII. A compound as claimed in claim 13, wherein Z=NII2; R3=H, R2=NII2; R4=
  OSO3II is the same meaning as is before defined;
- XXIV....A. compound as claimed in-claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>2</sub>= NIISO<sub>3</sub>II is the same meaning as is before defined;
- XXV. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>2</sub>=GH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- XXVI.—A--compound as elaimed in elaim—1, wherein—Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>2</sub>= CH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
- XXVII.—A compound as claimed in claim 1, wherein Z-NH2, R4-R3-R4-H, R2-SO3H is the came meaning as is before defined;
- XXVIII. A compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=H<sub>5</sub>, R<sub>2</sub>=OSO<sub>3</sub>H-is the same meaning as is before defined;

- XXIX.—A-compound-as-claimed-in-claim-1;-wherein-Z=NII<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NII<sub>2</sub>, R<sub>3</sub>= SO<sub>4</sub>II is the same meaning as is before defined;
- XXX. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=H<sub>2</sub>, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>3</sub>H-is the same meaning as is before defined;
- XXXI.—A-compound—as—claimed—in—claim—1, wherein—Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>4</sub>=SO<sub>3</sub>II is the same meaning as is before defined;
- XXXII. A-compound-as-claimed-in-claim-1,-wherein-Z=NI-12;-R<sub>1</sub>=R<sub>2</sub>=II<sub>1</sub>-R<sub>2</sub>=NII<sub>2</sub>;

  R<sub>4</sub>=OSO<sub>3</sub>II is the same meaning as is before defined.
  - 9. (Currently Amended) Novel-sSulfonic acid / sulfate derivatives of the compound of formulae 7.0C CR<sub>2</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH as claimed in claim 3
    - I. A compound as claimed in elaim 1, wherein Z=OII, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>1</sub>=NIISO<sub>3</sub>II is the same meaning as is before defined;
    - II.—A-compound-as-claimed in claim-1, wherein-Z=OII, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>1</sub>=-CII<sub>2</sub>SO<sub>3</sub>II is the same meaning as is before defined;
    - III.—A compound as claimed in claim 1, wherein Z=OII, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>-R<sub>5</sub>=R<sub>4</sub>-H<sub>5</sub>

      R<sub>1</sub>=CH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
    - $1V_{1}$ -A-compound as claimed in claim 1, wherein  $Z=OH_{3}-R_{3}=R_{4}=-R_{5}=R_{6}=H$ ,  $R_{1}=SO_{4}H$  is the same meaning as is before defined;
    - V.—A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>—R<sub>3</sub>—R<sub>4</sub>—R<sub>5</sub>—R<sub>6</sub>—H; R<sub>4</sub>—OSO<sub>3</sub>H is the same meaning as is before defined;
    - VI. A compound as claimed in claim 1, wherein 2 OH, R<sub>1</sub>=R<sub>2</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H; R<sub>2</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
    - VII.—A-compound as claimed in claim 1, wherein Z=QII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>2</sub>= SQ<sub>3</sub>H-is the same meaning as is before defined;
  - VIII.—A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>=
    NIISO<sub>3</sub>II is the same meaning as is before defined;
  - IX. A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>= R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>= GH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;

- X,—A compound as claimed in elaim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>= R<sub>5</sub>=R<sub>6</sub>=H<sub>5</sub>, R<sub>2</sub>= GH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
- XI.—A compound as claimed in claim 1, wherein Z-OII, R<sub>1</sub>-R<sub>4</sub>-R<sub>5</sub>-R<sub>6</sub>-II, R<sub>2</sub>-NII<sub>2</sub>, R<sub>3</sub>-SO<sub>4</sub>II is the same meaning as is before defined;
- XII.—A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;
- XIII.—A-compound-as-claimed-in-claim-1, wherein-Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=11, R<sub>2</sub>=NII<sub>2</sub>, R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XIV<sub>1</sub>—A compound as claimed-in-claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>= NH<sub>2</sub>; R<sub>4</sub>=OSO<sub>1</sub>H-is-the same meaning as is before defined;
- $\times V_1$ -A compound as claimed in claim 1, wherein Z=OH,  $R_1=R_4=R_3=R_6=H$ ,  $R_2=NH_2$ ,  $R_3=SO_3H$  is the same meaning as is before defined;
- XVI. A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H<sub>7</sub>-R<sub>2</sub>=NH<sub>2</sub>; R<sub>5</sub>=OSO<sub>3</sub>H-is the same meaning as is before defined;
- XVII. A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>6</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XVIII.—A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>2</sub>= NH<sub>2</sub>;

  R<sub>6</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XIX:—A-compound as claimed in claim 1, wherein  $Z=N11_2$ ;  $R_2=R_3=R_4=R_5=R_6=H$ ,  $R_1=N11SO_1H$  is the same meaning as is before defined;
- XX:--A-compound as claimed in claim-1, wherein-Z=NH<sub>2</sub>;- $R_2$ = $R_3$ = $R_4$ = $R_5$ = $R_6$ =H,  $R_1$ = $CH_2$ SO<sub>3</sub>H-is the same-meaning as is before defined;
- XXI. A compound as claimed in claim-I, wherein  $Z=NH_2$ ,  $R_2=R_3=R_4=R_5=R_6=H$ ,  $R_1=CH_2OSO_3H$  is the same meaning as is before defined:
- XXII.—A-compound—as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>4</sub>=II;

  R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXIII.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>1</sub>=OSO<sub>3</sub>II is the same meaning us is before defined:
- XXIV.—A compound as claimed in claim-1, wherein-Z=NH<sub>2</sub>,  $R_3=R_4=R_5=R_6=H$ ,  $R_2=OSO_4H$ -is the same-meaning as is before defined:

- XXV. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>= SO<sub>3</sub>H is the same meaning as is before defined;
- XXVI.—A compound as claimed in claim-1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>= NHSO<sub>3</sub>H is the same meaning as is before defined;
- XXVII.—A compound as elaimed—in-claim—I,—wherein—Z=NII<sub>2</sub>,  $R_4$ = $R_3$ = $R_4$ = $R_5$ = $R_6$ =
- XXVIII.--A-compound as-claimed in-claim-1, wherein-Z=NH<sub>3</sub>--R<sub>4</sub>--R<sub>3</sub>--R<sub>4</sub>--R<sub>5</sub>--R<sub>6</sub>--H<sub>3</sub>--R<sub>2</sub>-GH<sub>2</sub>OSO<sub>3</sub>H is the same meaning as is before defined;
  - XXIX.—A compound as claimed in-claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>2</sub>=NII<sub>2</sub>, R<sub>3</sub>=SO<sub>2</sub>II is the same meaning as is before defined;
  - XXX.—A compound as claimed in claim 1, wherein Z::NH<sub>2</sub>, R<sub>1</sub>::R<sub>4</sub>::R<sub>5</sub>::R<sub>6</sub>::H, R<sub>2</sub>::NH<sub>2</sub>, R<sub>3</sub>::OSO<sub>3</sub>H is the same meaning as is before defined;
  - XXXI.—A compound as claimed in claim-1, wherein  $Z=NH_2$ ,  $R_1=R_3=R_5=R_6=H$ ,  $R_2=NH_2$ ,  $R_4=SO_3H$  is the same meaning as is before defined;
- XXXII.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>2</sub>=NII<sub>2</sub>,

  R<sub>4</sub>=OSO<sub>3</sub>II is the same meaning as is before defined;
- XXXIII. A-compound as claimed in claim 1, wherein Z-NII<sub>2</sub>, R<sub>4</sub>-R<sub>4</sub>-R<sub>2</sub>-R<sub>6</sub>-II<sub>2</sub>, R<sub>3</sub>-NI<sub>2</sub>;

  R<sub>5</sub>-SO<sub>3</sub>II is the same meaning as is before defined;
- XXXIV.—A compound as claimed in claim-1; wherein Z-NI42;  $R_4$ = $R_4$ = $R_3$ = $R_6$ =H,  $R_2$ = NH2;  $R_5$ =OSO3H is the same meaning as is before defined;
- XXXV. A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>-R<sub>4</sub>=H, R<sub>2</sub>-NII<sub>2</sub>, R<sub>6</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXXVI. A-compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>4</sub>=I<sub>1</sub>, R<sub>2</sub>= NII<sub>2</sub>, R<sub>6</sub>=OSO<sub>3</sub>II is the same meaning as is before defined.
  - (Currently Amended) Novel-sSulfonic acid / sulfate derivatives of the compound of formulae -ZOG-CR<sub>2</sub>R<sub>8</sub>-CR<sub>5</sub>R<sub>6</sub>-CR<sub>1</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH as claimed in claim 4, wherein: Z=OH or NH<sub>2</sub>, R<sub>1</sub>, to R<sub>8</sub>-denotes -H<sub>7</sub>-NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>4</sub>H

- In A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

  R<sub>2</sub>=R<sub>8</sub>=H<sub>5</sub>, R<sub>1</sub>=NHSO<sub>1</sub>H is the same meaning as is before defined;
- H.—A-compound—as—claim—elaim—1, wherein—Z—OH,—R<sub>2</sub>—R<sub>3</sub>—R<sub>4</sub>=R<sub>5</sub>—R<sub>6</sub>=
  R<sub>7</sub>—R<sub>8</sub>—H, R<sub>1</sub>— CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- HI. A compound as claimed in claim 1, wherein Z=OII,  $R_2=R_3=R_4=R_5=R_0=R_0=R_2=R_3=II$ ,  $R_1=CII_2OSO_3II$  is the same meaning as is before defined;
- IV.-  $\Lambda$ --compound as elaimed in elaim--1, wherein --Z=OII,  $R_2=R_3=R_4=R_5$ - $R_6=R_7=R_8=II_1$ - $R_1=SO_3II$  is the same meaning as is before defined;
- VI:—A-compound as claimed in claim 1, wherein Z-OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>=II, R<sub>2</sub>=NHSO<sub>3</sub>II-is the same meaning as is before defined;
- VII. A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

  R<sub>7</sub>=R<sub>8</sub>=II, R<sub>2</sub>=CII<sub>2</sub>SO<sub>3</sub>II is the same meaning as is before defined:
- VIII.—A-compound—as—claimed—in-claim—1,—wherein—Z=O11,  $R_1 = R_3 = R_4 = R_5 = R_6 = R_7 = R_8 = 11$ ,  $R_2 = CH_2OSO_4$ II is the same meaning as is before defined:
  - 1X. A compound as elaimed in claim 1, wherein Z OH,  $R_4$  =  $R_3$  =  $R_4$  =  $R_5$  =  $R_6$  =  $R_3$  =  $R_4$  =  $R_$
  - $X_7 \sim \Lambda \sim compound$  as elaimed—in-claim—1, wherein  $Z=OH_7$ — $R_4=R_3=R_4=R_5=R_6=R_7=R_8=H_7$ — $R_2=OSO_3H$  is the same meaning as is before defined;
- XI. A compound as claimed in claim 1, wherein Z=OH,  $R_1=R_4=R_5=R_6=R_7=R_8=II$ ;  $R_2=NII_2$ ,  $R_3=SO_3II$  is the same meaning as is before defined:
- XII.—A-compound as claimed in claim 1, wherein-Z-OH, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>-R<sub>7</sub>-R<sub>8</sub>=H; R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XIII. A compound as claimed in claim-1, wherein Z-OII, R<sub>1</sub>-R<sub>2</sub>-R<sub>3</sub>-R<sub>5</sub>-R<sub>6</sub>-R<sub>7</sub>-R<sub>8</sub>-II,

  R<sub>2</sub>-NH<sub>2</sub>, R<sub>4</sub>-SO<sub>2</sub>H is the same meaning as is before defined:
- XIV. A compound as claimed in claim-1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>=H;
  R<sub>2</sub>=NH<sub>2</sub>, R<sub>4</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- $\times V$ —A compound as claimed in claim 1, wherein  $Z = OH_1$ ,  $R_4 = R_4 = R_3 = R_6 = R_7 = R_8 = H_1$ ,  $R_3 = NH_2$ ,  $R_5 = SO_3 H_1$  is the sumo meaning as is before defined;

- XVII.—A compound as claimed in claim 1, wherein Z=OH,  $R_1$ = $R_3$ = $R_4$ = $R_2$ = $R_3$ = $R_4$ = $R_3$ = $R_4$ = $R_3$ = $R_4$ = $R_3$ = $R_4$ = $R_3$ = $R_4$ = $R_4$ = $R_3$ = $R_3$ = $R_3$ = $R_3$ = $R_4$ = $R_3$ = $R_$
- XVIII.—A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>4</sub>=-R<sub>2</sub>=R<sub>3</sub>=R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=-R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=-R<sub>2</sub>=R<sub>3</sub>=II;

  R<sub>2</sub>=NII<sub>2</sub>-R<sub>6</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
  - XIX. A-compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>5</sub>=R<sub>5</sub>=H<sub>1</sub>;

    R<sub>2</sub>=NH<sub>2</sub>, R<sub>7</sub>=SO<sub>2</sub>H is the same meaning as is before defined;
  - XX. A compound as claimed in claim 1, wherein Z=OII, R<sub>4</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>=R<sub>5</sub>=R<sub>8</sub>=I4; R<sub>3</sub>=NII<sub>2</sub>, R<sub>7</sub>=OSO<sub>3</sub>H is the same meaning as is hefore defined;
  - XXI.—A-compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>4</sub>=R<sub>7</sub>=R<sub>6</sub>=II, R<sub>2</sub>=NII<sub>25</sub>R<sub>8</sub>=SO<sub>2</sub>II is the same meaning as is before defined;
- XXII. A compound as claimed in claim 1, wherein Z=OII,  $R_4$ = $R_3$ = $R_5$ = $R_4$ = $R_7$ = $R_6$ =II,  $R_3$ =NII<sub>2</sub>,  $R_8$ =OSO<sub>2</sub>II is the same meaning as is before defined;
- XXIII.—A compound as claimed in claim -1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

  R<sub>2</sub>=R<sub>8</sub>=H<sub>1</sub>-R<sub>1</sub>=NIISO<sub>3</sub>H is the same meaning as is before defined:
- XXV. A -compound -us -claimed in claim -1,-wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>= R<sub>7</sub>=R<sub>8</sub>=H<sub>7</sub>-R<sub>1</sub>=CH<sub>2</sub>OSO<sub>3</sub>H is the same meaning as is before defined:
- XXVI.— $\Lambda$ —compound—as—claimed—in—claim—1,—wherein—Z=NII<sub>2</sub>,— $R_2$ = $R_3$ = $R_4$ = $R_5$ = $R_6$ = $R_7$ = $R_3$ = $R_4$ = $R_3$ = $R_4$ = $R_5$ = $R_6$ = $R_7$ = $R_5$ = $R_6$ = $R_7$ = $R_7$
- XXVIII.—A—compound as—claimed—in—claim—1;—wherein—Z=NII<sub>2</sub>;—R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=
  R<sub>7</sub>=R<sub>8</sub>=H, R<sub>2</sub>:=NHSO<sub>2</sub>H is the same meaning as is before defined;
- XXIX.—A—compound—as—claimed—in—claim—1, wherein—2:—NH<sub>2</sub>,  $R_1=R_3=R_4=R_5=R_6=R_7=R_8=H$ ,  $R_2=CH_2SO_3H$  is the same meaning as is-before-defined;
- XXX.-A—compound—as—claimed—in—claim—1,—wherein—Z=NH<sub>2</sub>,— $R_1=R_3=R_4=R_5=R_6=R_2=R_3=H_1$ ,  $R_2=SO_3H$  is the same meaning as is before defined;

- XXXI.—A-compound—as—claimed—in—claim—1,—wherein—Z=NI I<sub>2</sub>,—R<sub>4</sub>,—R<sub>5</sub>,—R<sub>4</sub>,—R<sub>5</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>5</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R<sub>6</sub>,—R
- XXXII.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>,  $R_1$ = $R_4$ = $R_5$ = $R_6$ = $R_7$ = $R_8$ =II,  $R_2$ =NII<sub>2</sub>,  $R_3$ =SO<sub>3</sub>H is the same meaning as is before defined;
- XXXIII.—A compound as claimed in claim 1, wherein  $Z=NH_{27}-R_4=R_4=R_5=R_6=R_7=R_8=H$ ,  $R_2=NH_{27}-R_3=OSO_3H$  is the same meaning as is before defined;
- XXXIV. -A-compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>=H<sub>5</sub>

  R<sub>2</sub>=NH<sub>2</sub>, R<sub>4</sub>=SO<sub>1</sub>H is the same meaning as is before defined;
- XXXV.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>=-11, R<sub>2</sub>=NII<sub>2</sub>, R<sub>4</sub>=OSO<sub>2</sub>II is the same-meaning as is before defined;
- XXXVI... A compound as claimed in claim 1, wherein Z"NH<sub>2</sub>, R<sub>1</sub>-R<sub>4</sub>-R<sub>3</sub>-R<sub>6</sub>-R<sub>7</sub>-R<sub>8</sub>-H;

  R<sub>2</sub>-NH<sub>2</sub>, R<sub>5</sub>-SO<sub>3</sub>H is the same meaning as is before defined:
- XXXVII. A compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>= R<sub>7</sub>=R<sub>8</sub>=H;

  R<sub>2</sub>=NH<sub>2</sub>, R<sub>5</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- - XXXIX. A compound as claimed-in-claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>4</sub>=R<sub>4</sub>=R<sub>4</sub>=H<sub>5</sub>,

    R<sub>2</sub>=NH<sub>2</sub>, R<sub>6</sub>=OSO<sub>1</sub>H is the same meaning as is before defined:
    - X1... A-compound as chaimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>5</sub>=R<sub>8</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>7</sub>=SO<sub>2</sub>H is the same meaning as is before defined;
    - XIJ.—A-compound-as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>8</sub>=II; R<sub>2</sub>=NII<sub>2</sub>, R<sub>7</sub>=OSO<sub>3</sub>II is the same meaning as is before defined:
    - XIII.—A-compound as claimed in claim-1, wherein  $Z=NII_2$ ,  $R_1=R_3=R_5=R_4=R_7=R_6=II_7$  $R_2=NII_2$ ,  $R_3=SO_2II_1$  is the same meaning as is before defined;
    - XI.III. A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>7</sub>=R<sub>4</sub>=R<sub>7</sub>=R<sub>6</sub>=H<sub>7</sub>, R<sub>7</sub>=R<sub>6</sub>=H<sub>7</sub>, R<sub>7</sub>=NII<sub>2</sub>, R<sub>8</sub>=OSO<sub>3</sub>II is the same meaning as is before defined;
    - 11. (Currently Amended) A [[C]]compound as claimed in claim 5, wherein said compound is a non-toxic salts salt selected from the group consisting of:
      - I. [L-Aspartic acid, N-Sulfonic acid],

- [2α,3-dicarboxy, propane-1-sulfonic acid],
- III. [ $2\alpha$ , 3-dicarboxy, propane-1-sulfate],
- IV. [1α,2-carboxy ethane sulfonic acid],
- V.  $[1\alpha,2$ -carboxy ethane sulfate],
- VI. [D-aspartic acid, N-sulfonic acid],
- VII. [2β.3-carboxy,propane-1-sulfonic acid],
- VIII. [2β,3-carboxy,propanc-1-sulfate],
  - IX. [1β,2-carboxy ethane-1-sulfonic acid],
  - X. [1β,2-carboxy ethane-1-sulfate],
  - XI. [D-aspartic acid, 3α -sulfonic acid],
- XII. [D-aspartic acid, 3α-sulfate],
- XIII. [D-aspartic acid, 3\beta-sulfonic acid],
- XIV. [D-aspartic acid, 3β-sulfate],
- XV. [L-asparagine, N-sulfonic acid],
- XVI. [2a-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVII. [2a-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1a-carboxy, 2-carboxamido, ethane sulfonic acid],
  - XIX. [1a-carboxy, 2-carboxamido, ethane sulfate],
  - XX. [L-asparagine, 3α-sulfonic acid],
- XXI. [L-asparagine, 3a-sulfate],
- XXII. [1-asparagine, 3β-sulfonic acid],
- XXIII. [L-asparagine, 3β-sulfate,
- XXIV. [D-asparagine, N-sulfonic acid],
- XXV. [2]3-carboxy, 3-carboxamido, propane-1-sulfonic acid),
- XXVI. [2\beta-carboxy, 3-carboxamido, propane-1-sulfate],
- XXVII. [1β-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII. [1β-carboxy, 2-carboxamido, ethane sulfate],
  - XXIX. [D-asparagine, 3a-sulfonic acid],
  - XXX. [D-asparagine, 3α-sulfate],
  - XXXI. [D-asparagine, 3\beta-sulfonic acid],

- XXXII. [D-asparagine, 3\beta-sulfate],
- XXXIII. [L-glutamic acid, N-sulfonic acid],
- XXXIV. [2\alpha,4-dicarboxy, butane-1-sulfonic acid],
- XXXV. [2a, 4-dicarboxy, butanc-1-sulfate],
- XXXVI. [1\alpha, 3-dicarboxy, propane sulfonic acid],
- XXXVII. {1\alpha, 3-dicarboxy, propane sulfate],
- XXXVIII. [18, 3-dicarboxy, propane sulfate], and
  - XXXIX. [1β, 3-dicarboxy, propane sulfonic acid].[[,]]
    - 12. (Currently Amended) A [[C]]compound as claimed in claim 6, wherein said compound is a non-toxic salts salt selected from the group consisting of:
      - I. [D-glutamic acid, N-sulfonic acid],
      - II. [2β, 4-dicarboxy, butane-1-sulfonic acid],
      - III. [2β, 4-dicarboxy, butane-1-sulfate],
      - IV. [D-glutamic acid, 3α-sulfonic acid],
      - V. [D-glutamic acid, 3α-sulfate],
      - VI. [D-glutamic acid, 3β-sulfonic acid],
      - VII. [D-glutamic acid, 3β-sulfate],
    - VIII. [D-glutamic acid,  $4\alpha$ -sulfonic acid],
      - 1X. [D-glutamic acid, 4α-sulfate],
      - X. [D-glutamic acid, 4β-sulfonic acid],
      - XI. [D-glutamic acid, 3\beta-sulfate],
    - XII. [L-glutamine, N-sulfonic acid],
    - XIII. [2a-carboxy, 4-carboxamido, butane-1-sulfonic acid],
    - XIV. [2α-carboxy, 4-carboxamido, butane-1-sulfate],
    - XV. [1α-carboxy, 3-carboxamido, propane-1-sulfonic acid],
    - XVI. [1a-carboxy, 3-carboxamido, propanc-1-sulfate],
    - XVII. [1B-carboxy, 3-carboxamido, propane-1-sulfate],
    - XVIII. [Iß-carboxy, 3-carboxamido, propane-1-sulfonic acid],
      - XIX. [I)-glutamine, N-sulfonic acid],

- XX. [2\beta-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XXI. [2]3-carboxy, 4-carboxamido, butane-1-sulfate],
- XXII. [D-glutamine, 3\alpha-sulfonic acid],
- XXIII. [D-glutamine, 3a-sulfate],
- XXIV. [D-glutamine, 3β-sulfonic acid],
- XXV. [D-glutamine, 3β-sulfate],
- XXVI. [D-glutamine, 4α-sulfonic acid],
- XXVII. [D-glutamine, 4\alpha-sulfate],
- XXVIII. [D-glutamine, 4\beta-sulfonic acid],
  - XXIX. [D-glutamine, 4β-sulfate],
  - XXX. [L-homoglutamic acid, N-sulfonic acid],
  - XXXI. [Pentane-2a, 5-dicarboxy-1-sulfonic acid],
- XXXII. [Pentanc-2a, 5-dicarboxy-1-sulfate],
- XXXIII. [Butane-1a, 4-dicarboxy-1-sulfonic acid],
- XXXIV. [Butane-1a, 4-dicarboxy-1-sulfate],
- XXXV. [D-homoglutamic acid, N-sulfonic acid],
- XXXVI. [Pentane-2\beta, 5-dicarboxy-1-sulfonic acid],
- XXXVII. [Pentanc-2β, 5-dicarboxy-1-sulfate],
- XXXVIII. [Butane-1ß, 4-dicarboxy-1-sulfonic acid], and
  - XXXIX. [Butanc-1\beta, 4-dicarboxy-1-sulfate].[[,]]
    - 13. (Currently Amended) A [[C]]compound as claimed in claim 7, wherein said compound is a non-toxic salts salt selected from the group consisting of:
      - 1. [D-homoglutamic acid, 3α-sulfonic acid],
      - II. [D-homoglutamic acid, 3α-sulfate].
      - III. [D-homoglutamic acid, 3β-sulfonic acid],
      - IV. [D-homoglutamic acid, 3\beta-sulfate].
      - V. [D-homoglutamic acid, 4α-sulfonic acid],
      - VI. [D-homoglutamic acid, 4α-sulfate],
      - VII. [D-homoglutamic acid, 4β-sulfonic acid],

- VIII. [D-homoglutamic acid, 4β-sulfate],
  - IX. [D-homoglutamic acid, 5α-sulfate],
  - X. [D-homoglutamic acid, 5α-sulfate],
  - XI. [D-homoglutamic acid, 5β-sulfonic acid],
- XII. [D-homoglutamic acid, 5\beta-sulfate],
- XIII. [L-homoglutamine, N-sulfonic acid],
- XIV. [Pentanc-2α-carboxy, 5-carboxamido-1-sulfonic acid],
- XV. [Pentano-2α-carboxy, 5-carboxamido-1-sulfate],
- XVI. [Butane-1α-carboxy, 4-carboxamido-1-sulfonic acid].
- XVII. [Butane-1a-carboxy, 4-carboxamido-1-sulfate],
- XVIII. [D-homoglutamine, N-sulfonic acid],
- XIX. [Pentane-2β-carboxy, 5-carboxamido-1-sulfonic acid],
- XX. [Butane-1 β -carboxy, 4-carboxamido-1-sulfonic acid],
- XXI. [Butane-1 β -carboxy, 4-carboxamido-1-sulfate],
- XXII. [D-homoglutamine, 3α-sulfonic acid],
- XXIII. [D-homoglutamine, 3α-sulfate],
- XXIV. [D-homoglutamine, 3\beta-sulfonic acid],
- XXV. [D-homoglutamine, 3β-sulfate],
- XXVI. [D-homoglutamine, 4α-sulfonic acid],
- XXVII. [D-homoglutamine, 4α-sulfate],
- XXVIII. [D-homoglutamine, 4β-sulfonic acid],
  - XXIX. [D-homoglutamine, 4β-sulfate],
  - XXX. [D-homoglutamine, 5a-sulfonic acid],
  - XXXI. [D-homoglutamine, 5a-sulfate],
- XXXII. [D-homoglutamine, 5\beta-sulfonic acid], and
- XXXIII. [D-homoglutamine, 5β-sulfate].
  - 14. (Currently Amended) A compound as claimed in claim 11, wherein said compound is selected from the group consisting of aspartic acid, asparagine and corresponding de-

- I. [L- Aspartic acid, N-Sulfonic acid],
- II. [2α,3-dicarboxy, propane-1-sulfonic acid],
- III. [2α,3-dicarboxy, propano-1-sulfate],
- IV.  $[1\alpha,2\text{-carboxy ethane sulfonic acid}]$ ,
- V.  $[1\alpha,2$ -carboxy ethane sulfate],
- VI. [D-aspartic acid, N-sulfonic acid],
- VII. [2fl,3-carboxy,propane-1-sulfonic acid],
- VIII. [2ß,3-carboxy,propane-1-sulfate],
  - IX. [1β,2-carboxy ethane-1-sulfonic acid],
  - X.  $[1\beta,2-carboxy\ ethanc-1-sulfatc],$
  - XI. [D-aspartic acid, 3a -sulfonic acid],
- XII. [D-aspartic acid, 3a-sulfate],
- XIII. [D-aspartic acid, 3β-sulfonic acid],
- XIV. [D-aspartic acid, 3\beta-sulfate],
- XV. [Lasparagine, N-sulfonic acid],
- XVI. [2α-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
- XVII. [2α-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1α-carboxy, 2-carboxamido, ethane sulfonic acid],
  - XIX. [1a-carboxy, 2-carboxamido, ethane sulfate],
  - XX. [L-asparagine,  $3\alpha$ -sulfonic acid],
  - XXI. [L-asparagine, 3α-sulfate],
- XXII. [L-asparagine, 3β-sulfonic acid],
- XXIII. [L-asparagine, 3\beta-sulfate,
- XXIV. [D-asparagine, N-sulfonic acid],
- XXV. [2\beta-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI. [2]3-carboxy, 3-carboxamido, propane-1-sulfate],
- XXVII. [1β-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII. [1β-carboxy, 2-carboxamido, ethane sulfate],
- XXIX. [D-asparagine, 3α-sulfonic acid],
- XXX. [D-asparagine, 3α-sulfate],

- XXXI. [D-asparagine, 3β-sulfonic acid], and
- XXXII. [D-asparagine, 3β-sulfate].[[,]]
  - 15. (Currently Amended) A compound as claimed in claim 12, wherein said compound is selected from the group consisting of glutamic-acid, glutamine and corresponding deamino analogs:
    - I. [L-glutamic acid, N-sulfonic acid],
    - II. [2a,4-dicarboxy, butane-1-sulfonic acid],
    - III. [2a, 4-dicarboxy, butane-1-sulfate],
    - IV. [1a, 3-dicarboxy, propane sulfonic acid],
    - V. [1α, 3-dicarboxy, propane sulfate],
    - VI. [1β, 3-dicarboxy, propane sulfate],
    - VII. [1β, 3-dicarboxy, propane sulfonic acid],
  - VIII. [D-glutamic acid, N-sulfonic acid],
    - IX. [2β, 4-dicarboxy, butanc-1-sulfonic acid],
    - X. [2β, 4-dicarboxy, butanc-1-sulfate],
    - XI. [D-glutamic acid, 3α-sulfonic acid],
  - XII. [D-glutamic acid, 3α-sulfate],
  - XIII. [D-glutamic acid, 3β-sulfonic acid],
  - XIV. [D-glutamic acid, 3β-sulfate],
  - XV. [D-glutamic acid, 4\alpha-sulfonic acid],
  - XVI. [D-glutamic acid, 4α-sulfate],
  - XVII. [D-glutamic acid, 4β-sulfonic acid],
- XVIII. [D-glutamic acid, 3\beta-sulfate],
- XIX. [L-glutanine, N-sulfonic acid],
- XX. [2α-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XXI. [2α-carboxy, 4-carboxamido, butane-1-sulfate],
- XXII. [1a-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
- XXIII. [1a-carboxy, 3-carboxamido, propanc-1-sulfate],
- XXIV. [1β-carboxy, 3-carboxamido, propanc-1-sulfate],

- XXV. [1]3-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
- XXVI. [D-glutamine, N-sulfonic acid],
- XXVII. [2\beta-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XXVIII. [2β-carboxy, 4-carboxamido, butane-1-sulfate],
- XXIX. [D-glutamine, 3α-sulfonic acid],
- XXX. [D-glutamine, 3\alpha-sulfate],
- XXXI. [D-glutamine, 3β-sulfonic acid],
- XXXII. [D-glutamine, 3β-sulfate],
- XXXIII. [D-glutamine, 4α-sulfonic acid],
- XXXIV. [D-glutamine, 4α-sulfate],
- XXXV. [D-glutamine, 4β-sulfonic acid],
- XXXVI. [D-glutamine, 4β-sulfate],
- XXXVII. [L-homoglutamic acid, N-sulfonic acid],
- XXXVIII. [Pentane-2\alpha, 5-dicarboxy-1-sulfonic acid],
  - XXXIX. [Pentanc-2\alpha, 5-dicarboxy-1-sulfate],
    - XI. [Butane-1α, 4-dicarboxy-1-sulfonic acid], and
    - XLI. [Butanc-1α, 4-dicarboxy-1-sulfate][[,]].
    - 16. (Currently Amended) A compound as claimed in claim 13, wherein said compound is selected from the group consisting of homoglutamic-acid, homoglutamine—and corresponding de amino analogs:
      - I. [D-homoglutamic acid, N-sulfonic acid],
      - [Pentanc-2β, 5-dicarboxy-1-sulfonic acid],
      - III. [Pentanc-2β, 5-dicarboxy-1-sulfate],
      - IV. [Butane-1\beta, 4-dicarboxy-1-sulfonic acid],
      - V. [Butane-1β, 4-dicarboxy-1-sulfate],
      - VI. [D-homoglutamic acid, 3\alpha-sulfonic acid],
      - VII. [D-homoglutamic acid, 3α-sulfate],
    - VIII. [D-homoglutamic acid, 3β-sulfonic acid],
    - IX. [D-homoglutamic acid, 3β-sulfate],

- X. [D-homoglutamic acid, 4α-sulfonic acid],
- XI. [D-homoglutamic acid, 4α-sulfate],
- XII. [D-homoglutamic acid, 4\beta-sulfonic acid],
- XIII. [D-homoglutamic acid, 4\beta-sulfate],
- XIV. [D-homoglutamic acid, 5α-sulfate],
- XV. [D-homoglutamic acid, 5α-sulfate].
- XVI. [D-homoglutamic acid, 5β-sulfonic acid],
- XVII. [D-homoglutamic acid, 5β-sulfate],
- XVIII. [L-homoglutamine, N-sulfonic acid],
  - XIX. [Pentane-2a-carboxy, 5-carboxamido-1-sulfonic acid],
  - XX. [Pentane-2α-carboxy, 5-carboxamide-1-sulfate],
  - XXI. [Butanc-1α-carboxy, 4-carboxamido-1-sulfonic acid],
- XXII. [Butane-1a-carboxy, 4-carboxamido-1-sulfate],
- XXIII. [D-homoglutamine, N-sulfonic acid],
- XXIV. [Pentane-2β-carboxy, 5-carboxamido-1-sulfonic acid],
- XXV. [Butane-1 β -carboxy, 4-carboxamido-1-sulfonic acid],
- XXVI. [Butane-1 β -earboxy, 4-carboxamido-1-sulfate],
- XXVII. [D-homoglutamine, 3α-sulfonic acid],
- XXVIII. [D-homoglutamine, 3α-sulfate],
- XXIX. [D-homoglutamine, 3β-sulfonic acid],
- XXX. [D-homoglutamine, 3\beta-sulfate],
- XXXI. [D-homoglutamine, 4α-sulfonic acid],
- XXXII. [D-homoglutamine, 4α-sulfate],
- XXXIII. [D-homoglutamine, 4β-sulfonic acid],
- XXXIV. [D-homoglutamine, 4β-sulfate],
- XXXV. [D-homoglutamine, 5α-sulfonic acid],
- XXXVI. [D-homoglutamine, 5α-sulfate],
- XXXVII. [D-homoglutamine, 5β-sulfonic acid], and
- XXXVIII. [D-homoglut:mine, 5β-sulfate].

- 17. (Currently Amended) A compound as claimed in claim 1, wherein incubation of BM leukocyte precursors with different concentrations of the synthetic compound increases the cell surface densities of CD11c, CD80, CD54 and CD11c to various levels with maximum up regulation at 200 mM.
- 18. (Currently Amended) A compound as claimed in claim 1, wherein it the compound gives the fold increase in the levels of molecules of cells stimulated with either 15 ng/ml of GM-CSl<sup>7</sup> or 200 mM of the synthetic compound at 48 h of incubation.
- 19. (Currently Amended) A compound as claimed in claim 4-18, wherein the viability of the cultures is more than 99% at the end of the incubation period at this concentration of the synthetic compound.
- 20. (Currently Amended) A compound as claimed in claim 1, useful-to-induce wherein the compound is capable of inducing differentiation of dendritic cells and modulation of immune response controlled by dendritic cells.
- 21. (Currently Amended) Λ compound as claimed in claim 1, useful in vaccine formulation comprising a compound of Claim 1, wherein the compound is capable of to prevent providing more efficient and faster presentation of antigens to T-cells, thereby initiate initiating primary protective Th1 immune response and help helping in the clearance of the pathogen.

#### Claims 22-28 (Cancelled)

29. (Currently Amended) A [[P]]pharmaceutical composition comprising [[the]]] an effective amount of a compound selected from the general formula Z-OC (C R<sub>01</sub>R<sub>02</sub>) -CO-Z wherein Z = OH or NH<sub>2</sub> and u1 = n2 = 1 to 8, wherein one R in the compound is selected from the group consisting of SO<sub>1</sub>H, OSO<sub>2</sub>H, CH<sub>2</sub>--SO<sub>3</sub>H, CH<sub>2</sub>--OSO<sub>3</sub>H, and NHSO<sub>3</sub>H,

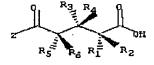
and the remaining Rs are H or NH<sub>2</sub>, and salts thereof, along with an additive, excipient, diluents or carrier.

- 30. (Currently Amended) A composition as claimed in claim 29, wherein said compound useful is capable of being used in vaccine formulation to prevent provide more efficient and faster presentation of antigens to T-cells, thereby initiate initiating primary protective.

  Th) immune response and help helping in the clearance of the pathogen.
- 31. (Currently Amended) A composition as claimed in claim 29, wherein said compound having-a-structure as herein-and bearing is a compound of Claim 2-general formula-ZOG-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH—wherein:-Z=OH·or-NH<sub>27</sub>-R<sub>17</sub>-to-R<sub>4</sub>-denotes-H, NH<sub>25</sub>-SO<sub>3</sub>H, or OSO<sub>3</sub>H<sub>5</sub>-CH<sub>2</sub>-SO<sub>3</sub>H<sub>5</sub>-CH<sub>2</sub>-OSO<sub>3</sub>H<sub>5</sub>-NHSO<sub>3</sub>H

Structure 1

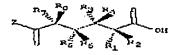
32. (Currently Amended) A composition as claimed in claim 29, wherein said compound having a structure as herein and bearing is a compound of Claim 3 structure as shown below and bears the general formula ZOC-CR<sub>5</sub>R<sub>6</sub>-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH wherein: Z-OH or-NII<sub>2</sub>, R<sub>1</sub>-to-R<sub>6</sub>-denotes-H, NH<sub>27</sub>-SO<sub>3</sub>H, or-OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, -CH<sub>2</sub>-OSO<sub>3</sub>H, -GH<sub>2</sub>-OSO<sub>3</sub>H, -GH<sub>2</sub>-OSO<sub>3</sub>H,



Structure 2

33. (Currently Amended) A composition as claimed in claim 29, wherein said compound having a structure as herein and bearing is a compound of Claim 4 general formula ZOC-

CR<sub>1</sub>R<sub>8</sub>-CR<sub>5</sub>R<sub>6</sub>-CR<sub>3</sub>R<sub>4</sub>-CR<sub>4</sub>R<sub>2</sub>-COOI<del>I</del> wherein: Z"OII or NII<sub>2</sub>, R<sub>4</sub> to R<sub>8</sub> denotes II, NII<sub>2</sub>, SO<sub>3</sub>II, or OSO<sub>3</sub>II, CII<sub>2</sub>-SO<sub>3</sub>II, CII<sub>2</sub>-OSO<sub>3</sub>II, NIISO<sub>3</sub>II



structure 3

- 34. (Currently Amended) A composition as claimed in claim 29, wherein said compound [[in]] is non-toxic to monocytes.
- 35. (Currently Amended) A composition as claimed in claim 29, wherein said compound [[in]] is non-toxic to macrophages.
- 36. (Currently Amended) A composition as claimed in claim 29, wherein additives are wherein the composition further comprises an additive comprising different divalent metal cations such as Mg, Ca and Zn.
- 37. (Currently Amended) A composition as claimed in claim 29, wherein-additives are wherein the composition further comprises an additive comprising amino acid/dicarboxylic acid derivatives and their pharmaceutically acceptable selected alkali/alkaline earth metal salts.
- 38. (Currently Amended) A composition as claimed in claim [[29]]31, wherein the compound is selected from the group consisting of:
  - I. [I. Aspartic acid, N-Sulfonic acid],
  - [2α,3-dicarboxy, propane-1-sulfonic acid],
  - [2a,3-dicarboxy, propanc-1-sulfate],
  - IV. [1a,2-carboxy ethane sulfonic acid],
  - V.  $[l\alpha,2$ -carboxy ethane sulfate],
  - VI. [D-aspartic acid, N-sulfonic acid],
  - VII. [2β,3-carboxy,propane-1-sulfonic acid],

- 26 -

- VIII. [2β,3-carboxy,propane-1-sulfate],
- IX. [1]3,2-carboxy ethane-1-sulfonic acid],
- X. [16,2-carboxy cthanc-1-sulfate],
- XI. [D-aspartic noid, 3α -sulfonic acid],
- XII. [D-aspartic acid, 3α-sulfate],
- XIII. [D-aspartic acid, 3β-sulfonic acid],
- XIV. [D-aspartic acid, 3β-sulfate],
- XV. [L-asparagine, N-sulfonic acid],
- XVI. [2α-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVII. [2α-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1α-carboxy, 2-carboxamido, ethane sulfonic acid],
  - XIX. [1a-carboxy, 2-carboxamido, ethane sulfate],
  - XX. [L-asparagine, 3α-sulfonic acid],
  - XXI. [L-asparagine, 3α-sulfate],
- XXII. [L-asparagine, 3\beta-sulfonic acid],
- XXIII. [1.-asparagine, 3β-sulfate,
- XXIV. [D-asparagine, N-sulfonic acid],
- XXV. [28-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI. [2\beta-carboxy, 3-carboxamido, propanc-1-sulfate],
- XXVII. [1B-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII. [1B-carboxy, 2-carboxamido, ethane sulfate],
- XXIX. [D-asparagine, 3a-sulfonic acid],
- XXX. [D-asparagine, 3α-sulfate],
- XXXI. [D-asparagine, 3β-sulfonic acid],
- XXXII. [D-asparagine, 3β-sulfate],
- XXXIII. [Leglutamic acid, N-sulfonic acid],
- XXXIV. [2a,4-dicarboxy, butane-1-sulfonic acid],
- XXXV. [2a, 4-dicarboxy, butanc-1-sulfate],
- XXXVI. [1a, 3-dicarboxy, propane sulfonic acid],
- XXXVII. [1a, 3-dicarboxy, propano sulfate],

- XXXVIII. [1ß, 3-dicarboxy, propane sulfate], and
- XXXIX. [1β, 3-dicarboxy, propane sulfonic acid].[[,]]
- 39. (Currently Amended) A composition as claimed in claim 29 32, wherein the compound is selected from the group consisting of:
  - I. [D-glutamic acid, N-sulfonic acid],
  - II. 2β, 4-dicarboxy, butane-1-sulfonic acid],
  - III. [2ß, 4-dicarboxy, butanc-1-sulfate],
  - IV. [D-glutamic acid, 3α-sulfonic acid],
  - V. [D-glutamic acid, 3α-sulfate],
  - VI. (D-glutamic acid, 3β-sulfonic acid),
  - VII. [D-glutamic acid, 3β-sulfate],
- VIII. [D-glutamic acid, 4α-sulfonic acid],
- JX. [D-glutamic acid, 4α-sulfate],
- X. [D-glutamic acid, 4β-sulfonic acid],
- XI. [D-glutamic acid, 3β-sulfate],
- XII. [L-glutamine, N-sulfonic acid],
- XIII. [2a-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XIV. [2a-carboxy, 4-carboxamido, butane-1-sulfate],
- XV. [1α-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
- XVI. [1α-carboxy, 3-carboxamido, propane-1-sulfate],
- XVII. [1β-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1ß-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XIX. [D-glutamine, N-sulfonic acid].
- XX. [2β-carboxy, 4-carboxamido, butane-1-sulfonic acid].
- XXI. [2β-carboxy, 4-carboxamido, butane-1-sulfate],
- XXII. [D-glutamine, 3α-sulfonic acid],
- XXIII. [D-glutamine, 3\alpha-sulfate],
- XXIV. [D-glutamine, 3\beta-sulfonic acid],
- XXV. [D-glutamine, 3β-sulfate],

- XXVI. [D-glutamine, 4\alpha-sulfonic acid],
- XXVII. [D-glutamine, 4α-sulfate],
- XXVIII. [D-glutamine, 4β-sulfonic acid],
  - XXIX. [D-glutamine, 4β-sulfate],
- XXX. [1\_homoglutamic acid, N-sulfonic acid],
- XXXI. [Pentanc-2a, 5-dicarboxy-1-sulfonic acid],
- XXXII. [Pentane-2a, 5-dicarboxy-1-sulfate],
- XXXIII. [Butane-1\alpha, 4-dicarboxy-1-sulfonic acid],
- XXXIV. [Butane-1α, 4-dicarboxy-1-sulfate],
- XXXV. [D-homoglutamic acid, N-sulfonic acid],
- XXXVI. [Pentane-2β, 5-dicarboxy-1-sulfonic acid],
- XXXVII. [Pentane-2β, 5-dicarboxy-1-sulfate],
- XXXVIII. [Butane-1ß, 4-dicarboxy-1-sulfonic acid], and
  - XXXIX. [Butanc-1β, 4-dicarboxy-1-sulfate], .
    - 40. (Currently Amended) A composition as claimed in claim 29 33, wherein the compound is selected from the group consisting of:
      - I. [D-homoglutamic acid, 3α-sulfonic acid],
      - II. [D-homoglutamic acid, 3α-sulfate],
      - III. [D-homoglutamic acid, 3\beta-sulfonic acid],
      - IV. [D-homoglutamic acid, 3β-sulfate],
      - V. [D-homoglutamic acid, 4α-sulfonic acid],
      - VI. [D-homoglutamic acid, 4α-sulfate],
      - VII. [D-homoglutamic acid, 4β-sulfonic acid],
    - VIII. [D-homoglutamic acid, 4β-sulfate],
      - IX. [D-homoglutamic acid, 5α-sulfate],
      - X. [D-homoglutamic acid, 5α-sulfate],
      - XI. [D-homoglutamic acid, 5β-sulfonic acid],
    - XII. [D-homoglutamic acid, 5β-sulfate],
    - XIII. [L-homoglutamine, N-sulfonic acid],

- XIV. [Pentane-2α-carboxy, 5-carboxamido-1-sulfonic acid],
- XV. [Pentane-2α-carboxy, 5-carboxamido-1-sulfate],
- XVI. [Butane-1α-carboxy, 4-carboxamido-1-sulfonic acid],
- XVII. [Butanc-1α-carboxy, 4-carboxamido-1-sulfate],
- XVIII. [D-homoglutamine, N-sulfonic acid],
  - XIX. [Pentane-2β-carboxy, 5-carboxamido-1-sulfonic acid],
  - XX. [Butanc-1 β -carboxy, 4-carboxamido-1-sulfonic acid],
  - XXI. [Butanc-1 β -carboxy, 4-carboxamido-1-sulfate],
- XXII. [D-homoglutamine, 3a-sulfonic acid],
- XXIII. [D-homoglutamine, 3α-sulfate],
- XXIV. [D-homoglutamine, 3\beta-sulfonic acid],
- XXV. [D-homoglutamine, 3\beta-sulfate],
- XXVI. [D-homoglutamine, 4α-sulfonic acid],
- XXVII. [D-homoglutamine, 4\alpha-sulfate],
- XXVIII. [D-homoglutamine, 4β-sulfonic acid],
- XXIX. [D-homoglutamine, 4\beta-sulfate],
- XXX. [D-homoglutamine, 5α-sulfonic acid],
- XXXI. [D-homoglutamine, 5\alpha-sulfate],
- XXXII. [D-homoglutamine, 5\beta-sulfonic acid], and
- XXXIII. [D-homoglutamine, 5β-sulfate].
  - 41. (Currently Amended) A composition as claimed in claim 29, wherein novel 31, wherein the compound is a sulfonic acid / sulfate derivatives derivative of the compound of Claim 2, formulae-ZOC CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub>-COOH wherein: Z-OH-or-NH<sub>2</sub>, R<sub>1</sub>, to R<sub>1</sub> denotes H; NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>3</sub>H.
    - 1.—A compound as claimed in claim 1, wherein Z=O11, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=NHSO<sub>3</sub>H is the same meaning as is before defined;
    - II.—A compound as claimed in claim 1; wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>-R<sub>4</sub>=H<sub>1</sub>, R<sub>3</sub>=CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;

- HI. A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=
  CH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
- IV. A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>\*\*R<sub>4</sub>\*\*11, R<sub>4</sub>\*\*SO<sub>4</sub>H-is the same meaning as is before defined;
- V. A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=OSO<sub>3</sub>H-is the same meaning as is before defined;
- VI.--A compound as claimed in claim-1; wherein Z=OH; R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=H; R<sub>2</sub>=NIISO<sub>3</sub>H is the same meaning as is before defined;
- VII,—A-compound as-claimed in claim 1; wherein Z-OH, R<sub>1</sub>-R<sub>3</sub>-R<sub>4</sub>-H; R<sub>2</sub>-CH<sub>2</sub>SO<sub>2</sub>H is the same meaning as is before defined;
- VIII. A compound as claimed in claim 1, wherein Z OH, Rp R3 R4 H, R3 CH3OSO4H is the same meaning as is before defined;
- IX. A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=II, R<sub>2</sub>=SO<sub>3</sub>H is the same-meaning as is before defined;
- X. A compound as claimed in claim 1, wherein Z OH, R<sub>1</sub>-R<sub>2</sub>-R<sub>4</sub>-H, R<sub>2</sub>-OSO<sub>2</sub>H is the same meaning as is before defined;
- XI.—A compound as claimed—in-claim—I;—wherein—Z=OH;—R<sub>1</sub>=R<sub>4</sub>=II,—R<sub>2</sub>=NH<sub>2</sub>; R<sub>3</sub>=SO<sub>3</sub>II is the same meaning as is before defined;
- XII.—A-compound as claimed in claim 1, wherein Z=OII, R<sub>4</sub>=R<sub>4</sub>=1I, R<sub>2</sub>=NH<sub>2</sub>; R<sub>3</sub>=SO<sub>1</sub>H is the same meaning as is before defined;
- XIII... Λ-compound -us-claimed in claim 1, wherein Z=OH, Ry-Ry-H,-Ry=NH<sub>2</sub>;

  R<sub>4</sub>=SO<sub>3</sub>H is the same meaning-as is before defined;
- XIV:--A--compound as claimed in claim 1, wherein Z=OH; R<sub>2</sub>=R<sub>3</sub>=H,-R<sub>2</sub>=NH<sub>2</sub>; R<sub>4</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XV. A compound as claimed in-claim 1, wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>1</sub>=NHSO<sub>3</sub>H is the same meaning as is before defined;
- XVI.—A-compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>3</sub>=R<sub>4</sub>=H<sub>3</sub>-R<sub>4</sub>=H<sub>3</sub>-R<sub>4</sub>=GH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- XVII.—A—compound—as—claimed in claim 1, wherein—Z=NII<sub>2</sub>, R<sub>2</sub>—R<sub>3</sub>—R<sub>4</sub>—II, R<sub>3</sub>—CII<sub>2</sub>OSO<sub>3</sub>II is the same meaning as is before defined;

- XVI)[.—A-compound as claimed-in-claim-1; wherein Z=NH<sub>2</sub>, R<sub>3</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=SO<sub>3</sub>H-is the same meaning as is before defined;
  - XIX. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>4</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
  - XX. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>= SO<sub>3</sub>H is the same meaning as is before defined;
  - XXI.--A-compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=II, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>4</sub>H is the same meaning as is before defined;
- XXII. A compound as claimed in claim-1, wherein-Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>2</sub>=H<sub>3</sub>-R<sub>3</sub>=H<sub>3</sub>-R<sub>4</sub>= SO<sub>3</sub>H-is-the-same meaning-as-is-before defined;
- XXIII.—A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>,  $R_1$ = $R_3$ =II,  $R_2$ =NH<sub>2</sub>,  $R_4$ = $QSO_3$ II is the same meaning as is before defined;
- XXIV.—A-compound as claimed in claim 1, wherein 7-NII<sub>2</sub>, R<sub>1</sub>-R<sub>3</sub>-R<sub>4</sub>-II, R<sub>2</sub>-NIISO<sub>3</sub>II is the same meaning as is before defined;
- XXV:--A-compound-as-claimed in claim-1, wherein-Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=H<sub>3</sub>, R<sub>2</sub>= CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined;
- XXVI.—A-compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>2</sub>= Cll<sub>2</sub>OSO<sub>2</sub>II is the same meaning as is before defined;
- XXVII.—A-compound as claimed-in-claim-1, wherein-Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=H, R<sub>2</sub>=SO<sub>3</sub>H-is the same meaning as is before defined;
- XXVIII.—A-compound as claimed in claim 1, wherein Z-AII2, R1-R3-R4-II, R2-OSO3II is
  the same meaning as is before defined;
- XXIX:—A-compound-as-claimed-in-claim-1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=H<sub>1</sub>, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>= SO<sub>3</sub>H is the same meaning-as is before defined;
- XXX. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XXXI.--A compound -as claimed -in claim -1, -wherein -Z=NH<sub>2</sub>, -R<sub>1</sub>=R<sub>3</sub>=H<sub>5</sub>-R<sub>2</sub>-NH<sub>2</sub>, R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXXII.—A-compound—as elaimed-in-claim—1, wherein Z-NII<sub>2</sub>, R<sub>1</sub>-R<sub>3</sub>-II, R<sub>2</sub>-NII<sub>2</sub>, R<sub>4</sub>-OSO<sub>3</sub>II is the same meaning as is before defined.

- 42. (Currently Amended) A composition as claimed in claim 29, wherein novel 32, wherein the compound is a sulfonic acid / sulfate derivatives derivative of the compound of Claim 3 formulae -ZOC CR<sub>5</sub>R<sub>6</sub>-CR<sub>3</sub>R<sub>4</sub>-CR<sub>1</sub>R<sub>2</sub> COOH, wherein: Z-OH or NH<sub>2</sub>, R<sub>1</sub>, to R<sub>6</sub> denotes H, NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-SO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>1</sub>H, NHSO<sub>2</sub>H,
  - I.—A-compound-as-claimed—in-claim—1, wherein—Z=OH,—R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H,
    R<sub>1</sub>=NHSO<sub>4</sub>H is the same meaning as is before defined;

  - III. A compound as claimed in claim 1, wherein Z=OH, R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>1</sub>=CH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
  - IV.--A-compound as claimed in claim 1, wherein Z=OH, R2=R3-R4--R3-R6--H,-R4=
    SO3H is the same meaning as is before defined;
  - V. A compound as claimed in claim 1, wherein Z OH, R2 R4 R5 R6 H;

    R4 OSO4H is the same meaning as is before defined;
  - VI:- $\Lambda$ -compound-as-claimed-in-claim-1, wherein -Z-OH,  $R_1$ - $R_3$ - $R_4$ - $R_5$ - $R_6$ -H,  $R_2$ -OSO<sub>3</sub>l-I is the same meaning as is before defined;
- VIII.—A-compound as claimed in claim-1, wherein Z-OII, R<sub>1</sub>=R<sub>2</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>-II, R<sub>2</sub>=NIISO<sub>3</sub>H-is the same meaning as is before defined;
  - 1X. A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=-R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>=
    CH<sub>2</sub>SO<sub>3</sub>H is the same meaning as is before defined:
  - X....A-compound as claimed-in claim-1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>--R<sub>5</sub>--R<sub>6</sub>--H, R<sub>2</sub>= CH<sub>2</sub>OSO<sub>3</sub>H is the same meaning as is before defined;
  - XI. A compound as claimed in claim-1, wherein-Z-OH,  $R_1=R_4=R_6=H$ ,  $R_2=NH_2$ ,  $R_2=SO_2H$  is the same meaning as is before defined;
- XII.—A-compound as claimed in claim-1, wherein-Z=OH, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>= NII<sub>2</sub>, R<sub>3</sub>=OSO<sub>3</sub>H-is the same meaning as is before defined;

- XIII:—A compound as claimed in claim 1, wherein Z=OII,  $R_1=R_3=R_5=R_6=H$ ,  $R_2=NH_2$ ,  $R_4=SO_3H$  is the same meaning as is before defined;
- XIV.—A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>3</sub>=R<sub>4</sub>=H<sub>5</sub>, R<sub>2</sub>=-NH<sub>2</sub>, R<sub>4</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XV..... Compound as claimed in claim 1, wherein Z=OH,  $R_1=R_4=R_3=R_6=H$ ,  $R_2=NH_2$ ,  $R_5=SO_1H$  is the same mooning as is before defined;
- XVI. A compound as claimed in claim-1, wherein Z=OII,  $R_4=R_4=R_3=R_6=II_1$ ,  $R_2=-NII_2$ ;  $R_5=OSO_3II$  is the same meaning as is before defined;
- XVII.—A-compound as claimed in claim 1, wherein Z-OII, R<sub>1</sub>-R<sub>3</sub>-R<sub>4</sub>-II, R<sub>2</sub>-NII<sub>2</sub>, R<sub>6</sub>-SO<sub>3</sub>H is the same meaning as is before defined;
- XVIII.—A compound as claimed in claim-13-wherein- $Z = OII_1 \cdot R_4 = R_3 = R_5 = R_4 = II$ ,  $R_2 = OII_2$ ,  $R_3 = OSO_2II$  is the same-meaning as is before defined;
  - XIX. A compound as claimed in claim 1, wherein Z-NII<sub>2</sub>, R<sub>2</sub>-R<sub>3</sub>-R<sub>4</sub>-R<sub>5</sub>-R<sub>6</sub>-II<sub>1</sub>, R<sub>1</sub>-NIISO<sub>2</sub>II is the same meaning as is before defined;
- XXII.---A-compound -as-elaimed-in-elaim 1, wherein Z=NH<sub>2</sub>, R<sub>3</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>1</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXHI.—A-compound as claimed in-claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>1</sub>=
  OSO<sub>2</sub>II is the same meaning as is before defined:
- XXIV.—A. compound as claimed in claim 1, wherein Z-NH<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>4</sub>=H<sub>7</sub>-R<sub>2</sub>=
  OSO<sub>3</sub>H is the same meaning as is before defined;
- XXV. A compound as elaimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>-R<sub>6</sub>=II, R<sub>2</sub>-SO<sub>3</sub>H is the same meaning as is before defined;
- XXVI;—A compound as claimed in claim 1, wherein Z-NII<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H<sub>4</sub>, R<sub>2</sub>=
  NIISO<sub>2</sub>H is the same meaning as is before defined;
- XXVII. A compound as claimed in claim 1, wherein 2=NII<sub>2</sub>, R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>-GH<sub>2</sub>SO<sub>4</sub>II is the same meaning as is before defined;

- XXVIII... A compound-as-claimed-in-claim 1, wherein 2-NH<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>=GH<sub>2</sub>OSO<sub>2</sub>H is the same meaning as is before defined;
  - XXIX.—A compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=SO<sub>3</sub>H is the came meaning as is before defined;
  - XXX.—A compound as claimed in claim 1, wherein  $Z=NH_2$ ,  $R_1=R_4=R_5=R_6=H$ ,  $R_2=NH_2$ ,  $R_3=OSO_3H$  is the same meaning as is before defined;
  - XXXI.—A-compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>6</sub>=II, R<sub>2</sub>=NII<sub>2</sub>, R<sub>4</sub>=SO<sub>3</sub>II is the same meaning as is before defined:
- XXXII.-- A compound as claimed in claim-1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H<sub>5</sub>-R<sub>2</sub>-NH<sub>2</sub>, R<sub>4</sub>=OSO<sub>3</sub>H is the same meaning as is before defined;
- XXXIII.- A compound as claimed in claim-1, wherein-Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=H<sub>5</sub>-R<sub>2</sub>=NH<sub>2</sub>, R<sub>5</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXXIV.—A-compound as claimed in claim 1, wherein 7.=NH<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>=H<sub>1</sub>, R<sub>2</sub>=NH<sub>2</sub>;

  R<sub>3</sub>=OSO<sub>4</sub>H is the same meaning as is before defined;
- XXXV.—A compound as claimed in claim-1; wherein- $R_1$ -NH<sub>2</sub>,  $R_4$ -R<sub>3</sub>-R<sub>4</sub>-H<sub>1</sub>,  $R_2$ -NH<sub>2</sub>,  $R_6$ -SO<sub>3</sub>H is the same meaning as is before defined;
- XXXVI.—A compound as claimed in claim by wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>2</sub>=R<sub>4</sub>=H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>5</sub>=OSO<sub>4</sub>H is the same meaning as is before defined.
  - 43. (Currently Amended) A composition as claimed in claim 29, wherein novel 33, wherein the compound is a sulfonic acid / sulfate derivatives derivative of the compound of Claim 4 formulae ZOG-GR<sub>7</sub>R<sub>8</sub>-GR<sub>5</sub>R<sub>6</sub>-GR<sub>3</sub>R<sub>4</sub>-GR<sub>1</sub>R<sub>2</sub>-COOH, wherein: Z=OH or NH<sub>2</sub>, R<sub>17</sub> to R<sub>8</sub>-thenotes H, NH<sub>2</sub>, SO<sub>3</sub>H, or OSO<sub>3</sub>H, CH<sub>2</sub>-OSO<sub>3</sub>H, NHSO<sub>3</sub>H
    - 1. A compound as elaimed in elaim-1,—wherein Z=OH,—R<sub>3</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=
      R<sub>7</sub>=R<sub>8</sub>=H, R<sub>1</sub>=NHSO<sub>3</sub>H is the same meaning as is before defined;
    - 11.—A.: compound—as—claimed—in—claim—1, wherein Z=OH,  $R_2$ = $R_3$ = $R_4$ = $R_5$ = $R_6$ = $R_2$ :  $R_3$ = $R_4$ = $R_5$ = $R_6$ = $R_6$ = $R_5$ = $R_6$ =R
    - III. A compound us claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

      R<sub>2</sub>=R<sub>8</sub>=H<sub>3</sub>-R<sub>4</sub>=CH<sub>2</sub>OSO<sub>3</sub>H-is the same meaning as is before defined;

- IV. A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=

  R<sub>5</sub>=R<sub>5</sub>=R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- V. A compound as claimed in claim 1, wherein Z=OH, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=
  R<sub>2</sub>=R<sub>3</sub>=H<sub>1</sub>-R<sub>4</sub>: OSO<sub>2</sub>H is the same meaning as is before defined;
- VI. A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>= R<sub>7</sub>=R<sub>8</sub>=H<sub>5</sub>-R<sub>2</sub>: NHSO<sub>3</sub>H-is the same meaning as is before defined;
- VII.—A—compound—as—claimed—in—claim—1,—wherein—Z=QII,—R<sub>3</sub>=-R<sub>3</sub>=-R<sub>4</sub>--R<sub>5</sub>--R<sub>6</sub>--R<sub>2</sub>=R<sub>8</sub>=-II, R<sub>2</sub>--CH<sub>2</sub>SO<sub>3</sub>II is the same meaning as is before defined;
- VIII.—A—compound—as—chimed—in—claim—1, wherein Z=OH,  $R_1=R_3=R_4=R_5=R_6=R_7=R_8=H_1$ ,  $R_2=CH_1OSO_1H$  is the same meaning as is-before defined;
  - 1X:-A-compound—as -elaimed in claim 1, wherein Z=OH,  $R_1=R_3=R_4=R_5=R_6=R_7=R_8=H$ ,  $R_2=SO_2H$  is the same meaning as is before defined;
  - X. A compound as claimed in claim 1, wherein 2-OH, R<sub>1</sub>-R<sub>2</sub>-R<sub>5</sub>-R<sub>6</sub>-R<sub>6</sub>-R<sub>7</sub>-R<sub>8</sub>-H<sub>1</sub>-R<sub>2</sub>-OSO<sub>3</sub>H is the same meaning as is before defined;
  - XI:—A compound as claimed in claim 1, wherein  $\mathcal{L}$ =OII,  $R_1$ = $R_4$ = $R_5$ = $R_6$ = $R_7$ = $R_8$ =II,  $R_2$ =NH<sub>2</sub>,  $R_3$ =SO<sub>3</sub>H is the same meaning as is before defined;
- XII. A compound as claimed in claim-1, wherein Z=OH<sub>2</sub>-R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>-R<sub>2</sub>-R<sub>8</sub>-H<sub>1</sub>,
  R<sub>2</sub>-NH<sub>2</sub>, R<sub>3</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;
- XIII.—A compound as claimed in claim 1, wherein Z=OII, R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>6</sub>-- R<sub>7</sub>=R<sub>8</sub>=II, R<sub>2</sub>=-NII<sub>27</sub>-R<sub>4</sub>--SO<sub>2</sub>H is the same meaning as is before defined;
- XIV. A compound as claimed in claim 1; wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>=H, R<sub>2</sub>=NH<sub>2</sub>; R<sub>4</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;
- XV. A compound as claimed in claim-1, wherein Z=QII,  $R_1 = R_4 = R_3 = R_6 = R_7 = R_9 = II$ ,  $R_2 = NH_2$ ,  $R_5 = SO_3H$  is the same meaning as is before defined;
- XVI.—A-compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>= R<sub>2</sub>=R<sub>8</sub>=H,

  R<sub>2</sub>=NII<sub>2</sub>, R<sub>3</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;
- XVII.—A-compound as claimed in-elaim 1, wherein Z=OH,  $R_1=R_3=R_5=R_4=-R_7=R_8=H$ ,  $R_2=NH_2$ ,  $R_6=SO_3H$  is the same meaning as is before defined;
- XVIII.—A compound as chaimed in claim 1, wherein Z=O11, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>4</sub>= R<sub>7</sub>=R<sub>8</sub>=H; R<sub>2</sub>=NH<sub>2</sub>, R<sub>6</sub>=OSO<sub>2</sub>H is the same meaning as is before defined;

- $XIX_{2}$ -A-compound as claimed in claim-1, wherein Z-OH,  $R_{1}$ - $R_{3}$ - $R_{5}$ - $R_{6}$ - $R_{5}$ - $R_{8}$ -H,  $R_{2}$ - $NH_{2}$ ,  $R_{2}$ - $SO_{3}$ H is the same meaning as is before defined;
- XX:-A-compound as claimed in claim -1; wherein Z=OII;  $R_1=R_4=R_3=R_6=R_5=R_8=II$ ;  $R_2=NII_2$ ;  $R_7=OSO_3II$  is the same meaning as is before defined;
- XXI. A compound as claimed in claim 1, wherein Z=OH, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>7</sub>=R<sub>4</sub>=R<sub>7</sub>=R<sub>4</sub>=H<sub>3</sub>, R<sub>3</sub>=NH<sub>2</sub>, R<sub>8</sub>=SO<sub>3</sub>H-is-the same meaning as is before defined;
- XXII.—A-compound as claimed in claim 1, wherein Z=OII,  $R_1$ = $R_3$ = $R_5$ = $R_4$ = $R_7$ = $R_6$ =II,  $R_3$ = $NII_2$ ,  $R_8$ = $OSO_3II$  is the same meaning as is before defined:
- XXIII. A compound as claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>= R<sub>7</sub>=R<sub>8</sub>=II, R<sub>1</sub>=NIISO<sub>3</sub>II is the same meaning as is before defined;
- XXIV...A. compound as -claimed.-in-claim-1,-wherein-Z-NH<sub>2</sub>,  $R_2$ - $R_3$ - $R_4$ - $R_5$ - $R_6$ = $R_7$ - $R_8$ -H,  $R_1$ - $CH_2$ SO<sub>1</sub>H is the same meaning as is before defined;
- XXVI: -A-compound as shimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>= R<sub>5</sub>=R<sub>5</sub>=R<sub>7</sub>=R<sub>8</sub>=H<sub>5</sub>-R<sub>4</sub>=SQ<sub>3</sub>H is the same meaning as is before defined;
- XXVII. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>2</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

  R<sub>2</sub>::R<sub>8</sub>=H<sub>3</sub>:R<sub>4</sub>=OSO<sub>2</sub>H-is the same meaning as is before defined;
- XXVIII.—A—compound—as—claimed—in—claim—I,—wherein—Z=NH<sub>27</sub>—R<sub>4</sub>—R<sub>3</sub>—R<sub>4</sub>—R<sub>5</sub>—R<sub>6</sub>— R<sub>7</sub>=R<sub>8</sub>—H<sub>1</sub> R<sub>2</sub>=NHSO<sub>3</sub>H is the same meaning as is before defined;
  - XXIX.—Λ compound as claimed -- in -- claim -1, wherein -Z=NH<sub>2</sub>, -R<sub>4</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>= R<sub>7</sub>=R<sub>8</sub>=H<sub>1</sub>, R<sub>2</sub>=CH<sub>2</sub>SO<sub>2</sub>H is the same meaning as is before defined;
  - $XXX_2-A$  compound—as—claimed—in—claim—1,—wherein— $Z=NH_2$ ,— $R_1=R_3=R_4=R_3=R_4=R_5=R_6=R_7=R_8=11$ ,  $R_2=SO_3H$  is the same meaning as is before defined;
  - XXXI.-A compound-as-claimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=

    R<sub>7</sub>=R<sub>8</sub>=II, R<sub>2</sub>=OSO<sub>2</sub>II is the same meaning as is before defined;
- XXXII.—A-compound-as-elaimed in claim 1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>6</sub>=-R<sub>7</sub>=R<sub>8</sub>=II, R<sub>2</sub>=NII<sub>2</sub>, R<sub>3</sub>=SO<sub>3</sub>II is the same meaning as is before defined;
- XXXIII.—A-compound as elaimed in olaim-1, wherein Z=NH<sub>2</sub>,  $R_4$ = $R_4$ = $R_5$ = $R_8$ =H,  $R_2$ = $NH_{27}$  $R_4$ = $OSO_4$ II is the same meaning as is before defined;

- XXXIV. A compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>6</sub>=R<sub>7</sub>=R<sub>8</sub>= H, R<sub>2</sub>=NH<sub>2</sub>, R<sub>4</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
- XXXV. A compound as claimed in claim-1, wherein  $Z=NH_2$ ,  $R_1=R_3=R_5=R_6=R_7=R_8=II$ ,  $R_2=NH_2$ ,  $R_4=OSO_3II$  is the same meaning as is before defined;
- XXXVI.—A compound as claimed in claim 1, wherein  $Z=NH_2$ ,  $R_1=R_4=R_3=R_6=R_7=R_8=H_1$ ,  $R_2=NH_2$ ,  $R_3=SO_2H$  is the same meaning as is before defined;
- XXXVII.—A compound-as-claimed-in-claim-1, wherein-Z:-NII<sub>2</sub>,-R<sub>1</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>6</sub>=-R<sub>7</sub>=R<sub>8</sub>=1I,

  R<sub>2</sub>=NII<sub>2</sub>,-R<sub>5</sub>=OSO<sub>3</sub>-II-is the same meaning as is before defined;
- XXXVIII.—A compound as claimed in claim 1, wherein Z=Nt12; R<sub>1</sub>=R<sub>2</sub>=R<sub>5</sub>=R<sub>4</sub>=-R<sub>7</sub>=R<sub>8</sub>=H; R<sub>2</sub>=Nt12; R<sub>6</sub>=SO<sub>3</sub>H-is the same meaning as is before defined;
  - XXXIX. A-compound-as-claimed-in-claim-1, wherein Z=NII<sub>2</sub>, R<sub>1</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>4</sub>= R<sub>7</sub>=R<sub>8</sub>=II,

    R<sub>2</sub>=NII<sub>2</sub>, R<sub>6</sub>=OSO<sub>3</sub>II is the same meaning as is before defined:
    - Xb.—A-compound as-claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>1</sub>=R<sub>4</sub>=R<sub>3</sub>=R<sub>5</sub>=R<sub>5</sub>=R<sub>8</sub>-H<sub>5</sub>, R<sub>2</sub>=NH<sub>2</sub>, R<sub>3</sub>=SO<sub>3</sub>H is the same meaning as is before defined;
    - XIA.—A-compound as claimed in claim 1, wherein Z=NH<sub>2</sub>, R<sub>4</sub>=R<sub>4</sub>=R<sub>4</sub>=R<sub>5</sub>=R<sub>8</sub>=H; R<sub>2</sub>-NH<sub>2</sub>, R<sub>2</sub>-OSO<sub>3</sub>H is the same meaning as is before defined;
    - XI.II.—A compound as elaimed in elaim-1, wherein Z=NII<sub>2</sub>;  $R_4$ = $R_5$ = $R_6$ = $R_7$ = $R_7$
    - XI.III. A-compound-as-elaimed-in-claim-1;-wherein  $Z = NH_2$ ;-  $R_1 = R_3 = R_5 = R_4 = R_7 = R_6 = H$ ;  $R_2 = NH_2$ ;-  $R_3 = OSO_3H$  is the same meaning as is before defined;
    - 44. (Currently Amended) Λ composition as claimed in claim [[29]]38, wherein said compound is non-texic salts selected from the group consisting of:
      - I. [L- Aspartic acid, N-Sulfonic acid],
      - II. [2a,3-dicarboxy, propane-1-sulfonic acid],
      - III. [2a,3-dicarboxy, propane-1-sulfate],
      - IV. [1a,2-carboxy ethane sulfonic acid],
      - V. [1α,2-carboxy cthane sulfate],
      - VI. [D-aspartic acid, N-sulfonic acid],
      - VII. [2β,3-carboxy,propane-1-sulfonic acid],

- VIII. [2β,3-carboxy,propane-1-sulfate],
  - IX. [1β,2-carboxy ethane-1-sulfonic acid],
- X. [1 $\beta$ ,2-carboxy ethane-1-sulfate],
- XI. [D-aspartic acid, 3a -sulfonic acid],
- XII. [ID-aspartic acid, 3α-sulfate],
- XIII. [D-aspartic acid, 3β-sulfonic acid],
- XIV. [D-aspartic acid, 3β-sulfate],
- XV. [L-asparagine, N-sulfonic acid],
- XVI. [2a-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVII. [2α-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1a-carboxy, 2-carboxamido, ethane sulfonic acid],
- XIX. [1a-carboxy, 2-carboxamido, ethane sulfate],
- XX. [1,-asparagine, 3α-sulfonic acid],
- XXI. [L-asparagine, 3α-sulfate],
- XXII. [L-asparagine, 3β-sulfonic acid],
- XXIII. [L-asparagine, 3\beta-sulfate,
- XXIV. [D-asparagine, N-sulfonic acid],
- XXV. [2β-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI. [2\beta-carboxy, 3-carboxamido, propanc-1-sulfate],
- XXVII. [13-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII. [1B-carboxy, 2-carboxamido, ethane sulfate],
- XXIX. [D-asparagine, 3a-sulfonic acid],
- XXX. [D-asparagine, 3\alpha-sulfate].
- XXXI. [D-asparagine, 3\beta-sulfonic acid],
- XXXII. [D-asparagine, 3β-sulfate],
- XXXIII. [L-glutamic acid, N-sulfonic acid],
- XXXIV. [2\alpha,4-dicarboxy, butane-1-sulfonic acid],
- XXXV. [2\alpha, 4-dicarboxy, butanc-1-sulfate],
- XXXVI. [1a, 3-dicarboxy, propane sulfonic acid],
- XXXVII. [1a, 3-dicarboxy, propano sulfate],

- XXXVIII. [1]3, 3-dicarboxy, propane sulfate], and
- XXXIX. [1], 3-dicarboxy, propane sulfonic acid].[[,]]
  - 45. (Currently Amended) A composition as claimed in claim [[29]]39, wherein said compound is non-toxic salts selected from the group consisting of:
    - 1. [D-glutamic acid, N-sulfonic acid],
    - II. [2β, 4-dicarboxy, butane-1-sulfonic acid],
    - III. [2β, 4-dicarboxy, butane-1-sulfate],
    - IV. [D-glutamic acid, 3α-sulfonic acid],
    - V. [D-glutamic acid, 3α-sulfate],
    - VI. [D-glutamic acid, 3β-sulfonic acid],
    - VII. [D-glutunic acid, 3\beta-sulfate],
  - VIII. [D-glutamic acid, 4α-sulfonic acid],
    - IX. [D-glutamic acid, 4α-sulfate],
    - X. [D-glutamic acid, 4β-sulfonic acid],
    - XI. [D-glutamic acid, 3B-sulfate],
  - XII. [L-glutamine, N-sulfonic acid],
  - XIII. [2a-carboxy, 4-carboxamido, butane-1-sulfonic acid],
  - XIV. [2a-carboxy, 4-carboxamido, butane-1-sulfate],
  - XV. [1α-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
  - XVI. [1α-carboxy, 3-carboxamido, propane-1-sulfate],
  - XVII. [1B-carboxy, 3-carboxamido, propane-1-sulfate],
  - XVIII. [18-carboxy, 3-carboxamido, propanc-1-sulfonic acid],
    - XIX. [D-glutamine, N-sulfonic acid],
    - XX. [2β-carboxy, 4-carboxamido, butanc-1-sulfonic acid],
    - XXI. [2ß-carboxy, 4-carboxamido, butane-1-sulfate],
  - XXII. [D-glutamine,  $3\alpha$ -sulfonic acid],
  - XXIII. [D-glutamine, 3α-sulfate],
  - XXIV. [D-glutamine, 3β-sulfonic acid],
  - XXV. [D-glutamino, 3\beta-sulfate],

- XXVI. [D-glutamine, 4\alpha-sulfonic acid],
- XXVII. [D-glutamine, 4α-sulfate],
- XXVIII. [D-glutamine, 4ß-sulfonic acid],
  - XXIX. [D-glutamine, 4\beta-sulfate],
  - XXX. [L-homoglutamic acid, N-sulfonic acid],
- XXXI. [Pentane-2a, 5-dicarboxy-1-sulfonic acid],
- XXXII. [Pentanc-2\alpha, 5-dicarboxy-1-sulfate],
- XXXIII. [Butane-1α, 4-dicarboxy-1-sulfonic acid],
- XXXIV. [Butanc-1a, 4-dicarboxy-1-sulfate],
- XXXV. [D-homoglutamic acid, N-sulfonic acid].
- XXXVI. [Pentanc-2β, 5-dicarboxy-1-sulfonic acid],
- XXXVII. [Pentanc-2\beta, 5-dicarboxy-1-sulfate],
- XXXVIII. [Butanc-1ß, 4-dicarboxy-1-sulfonic acid], and
- XXXIX. [Butane-1\beta, 4-dicarboxy-1-sulfate].[[,]]

# [[45]]46. (Currently Amended) A composition as claimed in claim [[29]]40, wherein said compound is non-toxic salts selected from the group consisting of:

- 1. [D-homoglutamic acid, 3α-sulfonic acid],
- II. [D-homoglutamic acid, 3\alpha-sulfate],
- III. [D-homoglutantic acid, 3β-sulfonic acid],
- IV. [D-homoglutamic acid, 3β-sulfate],
- V. [D-homoglutamic acid, 4α-sulfonic acid],
- VI. [D-homoglutamic acid, 4α-sulfate],
- VII. [D-homoglutamic acid, 4\beta-sulfonic acid],
- VIII. [D-homoglutamic acid, 4β-sulfate],
  - IX. [D-homoglutamic acid, 5α-sulfate],
  - X. [D-homoglutamic acid, 5α-sulfate],
  - XI. [D-homoglutamic acid, 5\beta-sulfonic acid],
- XII. [D-homoglutamic acid, 5β-sulfate],
- XIII. [L-homoglutamine, N-sulfonic acid],

- XIV. [Pentane-2a-carboxy, 5-carboxamido-1-sulfonic acid],
- XV. [Pentane-2α-carboxy, 5-carboxamido-1-sulfate],
- XVI. [Butane-1a-carboxy, 4-carboxamido-1-sulfonic acid],
- XVII. [Butane-In-carboxy, 4-carboxamido-1-sulfate],
- XVIII. [D-homoglutamine, N-sulfonic acid],
- XIX. [Pentane-2β-carboxy, 5-carboxamido-1-sulfonic acid],
- XX. [Butane-1 β -carboxy, 4-carboxamido-1-sulfonic acid].
- XXI. [Butane-1 β -carboxy, 4-carboxamido-1-sulfate],
- XXII. [D-homoglutamine, 3α-sulfonic acid],
- XXIII. [D-homoglulamine, 3α-sulfate],
- XXIV. [D-homoglutamine, 3β-sulfonic acid],
- XXV. [D-homoglutamine, 3\beta-sulfate],
- XXVI. [D-homoglutamine, 4a-sulfonic acid],
- XXVII. [D-homoglutamine, 4a-sulfate],
- XXVIII. [D-homoglutamine, 4β-sulfonic acid],
  - XXIX. [D-homoglutamine, 4β-sulfate],
  - XXX. [D-homoglutamine, 5α-sulfonic acid],
- XXXI. [D-homoglutamine, 5\alpha-sulfate],
- XXXII. [D-homoglutamine, 5\beta-sulfonic acid], and
- XXXIII. [D-homoglutamine, 5β-sulfate].
  - [[46]]47. (Currently Amended) Λ composition as claimed in claim [[29]]44, wherein said compound is selected from the group consisting of aspartic acid, asparagine and corresponding de annino analogs:
    - 1. [L- Aspartic acid, N-Sulfonic acid],
    - II. [2a,3-dicarboxy, propane-1-sulfonic acid],
    - III. [2a,3-dicarboxy, propanc-1-sulfate].
    - [1a,2-carboxy ethane sulfonic acid],
    - V. [1a,2-carboxy ethanc sulfate],
    - VI. [D-aspartic acid, N-sulfonic acid],

- VII. [2β,3-carboxy.propanc-1-sulfonic acid],
- VIII. [2β,3-carboxy,propane-1-sulfate],
  - IX. [1β,2-carboxy ethane-1-sulfonic acid],
  - X. [1B,2-carboxy ethane-1-sulfate],
  - XI. [D-aspartic acid, 3α -sulfonic acid],
- XII. [D-aspartic acid, 3α-sulfate],
- XIII. [D-aspartic acid, 3β-sulfonic acid],
- XIV. [D-aspartic acid, 3β-sulfate],
- XV. [L-asparagine, N-sulfonic acid],
- XVI. [2α-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XVII. [2a-carboxy, 3-carboxamido, propane-1-sulfate],
- XVIII. [1α-carboxy, 2-carboxamido, cthane sulfonic acid],
- XIX. [la-carboxy, 2-carboxamido, ethanc sulfate],
- XX. [L-asparagine, 3α-sulfonic acid],
- XXI. [L-asparagine, 3α-sulfate],
- XXII. [L-asparagine, 3\beta-sulfonic acid],
- XXIII. [L-asparagine, 3\beta-sulfate,
- XXIV. [D-asparagine, N-sulfonic acid],
- XXV. [2β-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI. [2\beta-carboxy, 3-carboxamido, propano-1-sulfate],
- XXVII. [1ß-carboxy, 2-carboxamido, ethane sulfonic acid],
- XXVIII. [1]3-carboxy, 2-carboxamido, ethane sulfate],
- XXIX. [D-asparagine, 3α-sulfonic acid],
- XXX. [D-asparagine, 3α-sulfate],
- XXXI. [D-asparagine, 3\beta-sulfonic acid], and
- XXXII. [D-asparagine, 3β-sulfate].[[,]]
  - [[47]]48. (Currently Amended) A composition as claimed in claim [[29]]45, wherein said compound is selected from the group consisting of glutamic acid,—glutamine—and corresponding-de-amino analogs:

- I. [L-glutamic acid, N-sulfonic acid],
- II. [2a,4-dicarboxy, butane-1-sulfonic acid],
- III. [2\alpha, 4-dicarboxy, butane-1-sulfate],
- IV. [1a, 3-dicarboxy, propane sulfonic acid],
- V. [1α, 3-dicarboxy, propane sulfate],
- VI. [1β, 3-dicarboxy, propane sulfate],
- VII. [1β, 3-dicarboxy, propane sulfonic acid],
- VIII. [D-glutamic acid, N-sulfonic acid],
- IX. [2β, 4-dicarboxy, butane-1-sulfonic acid],
- X. [2β, 4-dicarboxy, butane-1-sulfate],
- XI. [D-glutamic acid, 3α-sulfonic acid],
- XII. [D-glutamic acid, 3α-sulfate],
- XIII. [D-glutamic acid, 3\beta-sulfonic acid],
- XIV. [D-glutamic acid, 3β-sulfate],
- XV. [D-glutamic acid, 4a-sulfonic acid],
- XVI. [D-glutamic acid, 4α-sulfate],
- XVII. [D-glutamic acid, 4β-sulfonic acid],
- XVIII. [D-glutamic acid, 3β-sulfate],
  - XIX. [L-glutamine, N-sulfonic acid],
  - XX. [2α-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XXI. [2α-carboxy, 4-carboxamido, butanc-1-sulfate].
- XXII. [lα-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXIII. [In-carboxy, 3-carboxamido, propane-1-sulfate],
- XXIV. [1β-carboxy, 3-carboxamido, propane-1-sulfate],
- XXV. [1β-carboxy, 3-carboxamido, propane-1-sulfonic acid],
- XXVI. [D-glutamine, N-sulfonic acid],
- XXVII. [2ß-carboxy, 4-carboxamido, butane-1-sulfonic acid],
- XXVIII. [2\beta-carboxy, 4-carboxamido, butane-1-sulfate],
  - XXIX. [D-glutamine, 3a-sulfonic acid],
  - XXX. [D-glutamine, 3a-sulfate],

- XXXI. [D-glutamine, 3β-sulfonic acid],
- XXXII. [D-glutamine, 3β-sulfate],
- XXXIII. [D-glutamine, 4α-sulfonic acid],
- XXXIV. [D-glutamine, 4α-sulfate],
- XXXV. [D-glutamine, 4β-sulfonic acid],
- XXXVI. [D-glutamine, 4\beta-sulfate],
- XXXVII. [L-homoglutamic acid, N-sulfonic acid],
- XXXVIII. [Pentane-2a, 5-dicarboxy-1-sulfonic acid],
  - XXXIX. [Pentane-2a, 5-dicarboxy-1-sulfate],
    - XL. [Butane-1a, 4-dicarboxy-1-sulfonic acid], and
    - XLI. [Butane-1α, 4-dicarboxy-1-sulfate],[[,]]
    - [[48]]49. (Currently Amended) A composition as claimed in claim [[29]]46, wherein said compound is selected from the group consisting of homoglutamic acid, homoglutamine and corresponding de amino analogs:
      - 1. [D-homoglutamic acid, N-sulfonic acid],
      - II. [Pentane-2\beta, 5-dicarboxy-1-sulfonic acid],
      - III. [Pentane-2\beta, 5-dicarboxy-1-sulfate],
      - IV. [Butane-1β, 4-dicarboxy-1-sulfonic acid],
      - V. [Butane-1β, 4-dicarboxy-1-sulfate],
      - VI. [D-homoglutamic acid, 3α-sulfonic acid],
      - VII. [D-homoglutamic acid, 3α-sulfate].
    - VIII. [D-homoglutamic acid, 3sl-sulfonic acid].
      - IX. [D-homoglutamic acid, 3\beta-sulfate],
      - X. [D-homoglutarnic acid, 4α-sulfonic acid],
    - XI. [D-homoglutamic acid, 4α-sulfate],
    - XII. [D-homoglutamic acid, 4\beta-sulfonic acid],
    - XIII. [D-homoglutamic acid, 4β-sulfate],
    - XIV. [D-homoglutamic acid, 5\a-sulfate],
    - XV. [D-homoglutamic acid, 5α-sulfate],

- XVI. [D-homoglutamic acid, 5β-sulfonic acid],
- XVII. [D-homoglutamic acid, 5β-sulfate],
- XVIII. [L-homoglutamine, N-sulfonic acid],
  - XIX. [Pentanc-2α-carboxy, 5-carboxamido-1-sulfonic acid],
  - XX. [Pentane-2α-carboxy, 5-carboxamido-1-sulfate],
  - XXI. [Butane-Ia-carboxy, 4-carboxamido-I-sulfonic acid],
- XXII. [Butane-lα-carboxy, 4-carboxamido-1-sulfate],
- XXIII. [D-homoglutamine, N-sulfonic acid],
- XXIV. [Pentane-2\beta-carboxy, 5-carboxamido-1-sulfonic acid],
- XXV. [Butane-1 β -carboxy, 4-carboxamido-1-sulfonic acid],
- XXVI. [Butane-1 β -carboxy, 4-carboxamido-1-sulfate],
- XXVII. [D-homoglutamine, 3\alpha-sulfonic acid],
- XXVIII. [D-homoglutamine, 3\alpha-sulfate],
  - XXIX. [D-homoglutamine, 3\beta-sulfonic acid],
  - XXX. [D-homoglutamine, 3\beta-sulfate],
- XXXI. [D-homoglutamine, 4\alpha-sulfonic acid],
- XXXII. [D-homoglutamine, 4α-sulfate],
- XXXIII. [D-homoglutamine, 4β-sulfonic acid],
- XXXIV. [D-homoglutamine, 4\beta-snlfate],
- XXXV. [D-homoglutamine, 5α-sulfonic acid],
- XXXVI. [D-homoglutamine, 5\alpha-sulfate],
- XXXVII. [D-homoglutamine, 5β-sulfonic acid], and
- XXXVIII. [D-homoglutamine, 5\beta-sulfate].